

19980202.qrp v00_n989.qrs.980202

Date: Mon, 2 Feb 1998 19:03:13 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 989

QRP-L Digest 989

Topics covered in this issue include:

- 1) [2672] Re: MAV-11 mini-circuits
by "J. Skalski" <jskalski@acsu.buffalo.edu>
- 2) [2673] YAESU VX-1R FOR SALE!
by AC6JA@aol.com
- 3) [2674] Club web site
by Jim Stafford W4Q0 <w4qo@america.net>
- 4) [2675] Re: Novice Round-Up?
by Sam <kc5tja@animeonline.ml.org>
- 5) [2676] Re: NA SPRINT SSB
by Monte Stark <ku7y@sage.dri.edu>
- 6) [2677] FS: MFJ-490 Memory Keyer and Bencher Combo
by mwattcpa@earthlink.net (Marty Watt)
- 7) [2678] Fox
by Mark Kesner <marklori@visuallink.com>
- 8) [2679] FAR Circuits NorCal Tuna Tin 2 Boards
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 9) [2680] Buy/Sell on internet
by Jerrydeen@aol.com
- 10) [2681] Re: FAR Circuits NorCal Tuna Tin 2 Boards
by Sam <kc5tja@animeonline.ml.org>
- 11) [2682] K1TTT site
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
- 12) [2683] Diodes
by Ed <edn4pk@VoyagerOnline.net>
- 13) [2684] FOX? What Fox...
by N10DL@aol.com
- 14) [2685] Re: 60's Twilight Zone
by "Gobrick, Robert (rgob)" <rgob@tengizchevroil.com>
- 15) [2686] Heathkit web page
by KB9JJA QRP Account <qrp@thekeep.mcs.accessus.net>
- 16) [2687] Relicensed After 48 Years
by flyer@hooked.net
- 17) [2688] Fox: Wednesday Night Fox N9DD
by N9DD@aol.com
- 18) [2689]
by Hank Kohl K8DD <k8dd@contesting.com>
- 19) [2690] Toroidal Cores

- by Michael Pratt <mtpratt@budsters.com>
- 20) [2691] SPICE and 2N2222As
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 21) [2692] Time machine indeed!
by maccary@on-ramp.ior.com
- 22) [2693] thanks for the help
by RangerSF5@aol.com
- 23) [2694] Re: Night fo the Living Dead QRP op
by kb0rol@juno.com (Bradley L Mugleston)
- 24) [2695] FS: TenTec Agrosy, Icom IC820H VHF/UHF, RS HTX-202
by Jack Mc Kie <mjmckie@frontiernet.net>
- 25) [2696] Dayton Rooms *** Dayton Rooms
by Hank Kohl K8DD <k8dd@contesting.com>
- 26) [2697] Re: Relicensed After 48 Years
by "Ron Smith" <resmith@primenet.com>
- 27) [2698] NOR-CAL MEETING
by jerry schnor <jerrylee@cwws.net>
- 28) [2699] Question
by E L D <wd7y@pyramid.net>
- 29) [2700] Re: Toroidal Cores
by Paul Harden <pharden@aoc.nrao.edu>
- 30) [2701] Re: Relicensed After 48 Years
by "Bob Kellogg" <ae4ic@nr.infi.net>
- 31) [2702] Toubleshooting in the rain (or what we did instead of going to Norcal)
by Jeff Grudin <grudin@pacific.vdbs.com>
- 32) [2703] Connect radio to soundcard?
by "Charles L. Stackhouse" <cstack@safelink.net>
- 33) [2704] Dayton Rooms
by Erv <kb8tnq@voyager.net>
- 34) [2705] High gain amplifier...
by Sam <kc5tja@animeonline.ml.org>
- 35) [2706] Let's do FYB0!
by Paul Harden <pharden@aoc.nrao.edu>
- 36) [2707] Re: Economic reality (was: Juno)
by Bob Patten <n4bp@bc.seflin.org>
- 37) [2708] Re: Diodes
by Leon Heller <leon@lfheller.demon.co.uk>
- 38) [2709] Building tip for Ten Tec 1340
by Scott Bauer <ke3nv@erols.com>
- 39) [2710] Re: Let's do FYB0!
by Richard Powell <ripowell@mpna.com>
- 40) [2711] If only I had a Herring Aid 5 back in the 50's-and-60's
by "ALAN KAUL" <alan.kaul@worldnet.att.net>
- 41) [2712] PCB Etchant
by n3fel@juno.com (Howard D Rubin)
- 42) [2713] Re: Relicensed After 48 Years
by Luis Alarcon Palencia <ea4dxdp@arrakis.es>
- 43) [2714] New student list for elmer project

by Michael Maiorana <mikemo@ibm.net>

44) [2715] Low Voltage Indicator
by Derek Brown <DBrown@RFMD.com>

45) [2716] Re: PCB Etchant
by GERALDCUND@aol.com

46) [2717] Fox Log Form 1-20-98 AE9K WI
by Bcieslak@ra.rockwell.com

47) [2718] Re: If only I had a Herring Aid 5 back in the 50's-and-60's
by Paul Erickson <paul1@wizard.ucsf.edu>

48) [2719] "THE" Ultimate cheap QRP straight key
by "Jeff M. Gold" <JGold@tntech.edu>

49) [2720] MFJ Schematics
by LYN WILLIAMS <designserv@ipass.net>

50) [2721] radio design help
by Brad Mugleston <bmug@gwl.com>

51) [2722] Re: MFJ Schematics
by Jim Parsons <k5rov@worldnet.att.net>

52) [2723] RE: Strange Signal
by Kevin Muenzler <wb5rue@stic.net>

53) [2724] Marshall's untimely demise
by Bcieslak@ra.rockwell.com

54) [2725] RE: YYYYYAAAAAHHHH000000000!!!!
by Kevin Muenzler <wb5rue@stic.net>

55) [2726] toroid measure
by dave_epps@juno.com

56) [2727] Issues with Ten-Tec 1330
by Gary Chevalier <gchevalier@isi.com>

57) [2728] Re: Troubleshooting in the rain (or what we did instead of going to Norcal)
by adams@chuck.dallas.sgi.com (Chuck Adams)

58) [2729] Re: High gain amplifier...
by adams@chuck.dallas.sgi.com (Chuck Adams)

59) [2730] Re: "THE" Ultimate cheap QRP straight key
by wmcshan@REX.RE.ouhsc.edu (Mike McShan)

60) [2731] Re: toroid measure
by Chris Trask <ctrask@primenet.com>

61) [2732] Board shorts and the zen of motorcycle riding.
by Monte Stark <ku7y@sage.dri.edu>

62) [2733] RE: YYYYYAAAAAHHHH000000000!!!!
by Ed Tanton <n4xy@bellsouth.net>

63) [2734] Re: toroid measure
by Ed Tanton <n4xy@bellsouth.net>

64) [2735] TEN TEC 1330 MTR QRP RIG CHIRP
by LYN WILLIAMS <designserv@ipass.net>

65) [2736] Re: Connect radio to soundcard
by Bill Jones <kd7s@psnw.com>

66) [2737] Re: Toroidal Cores
by Steven Weber <kd1jv@moose.ncia.net>

67) [2738] V Calls
by minie@ed11a.msfc.nasa.gov (minie)

68) [2739] Re: FYBO Question
by Joe Gervais <vole@primenet.com>

69) [2740] Re: Fox Log Form 1-20-98 AE9K WI
by Nicholas Jeria <jerian@candw.lc>

70) [2741] NA Sprint & FYBO collision!
by Monte Stark <ku7y@sage.dri.edu>

71) [2742] RI-DEpedition
by joel malman <malman@world.std.com>

72) [2743] economic reality
by LYN WILLIAMS <designserv@ipass.net>

73) [2744] Re: radio design help
by Sam <kc5tja@animeonline.ml.org>

74) [2745] Re: NA Sprint & FYBO collision!
by adams@chuck.dallas.sgi.com (Chuck Adams)

75) [2746] Parts Designators For NorCal Tuna Tin 2 Board
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)

76) [2747] Re: Toroidal Cores
by Robert Parks <rob3ert@vegas.infi.net>

77) [2748] Re: toroid measure
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>

78) [2749] Re: Board shorts and the zen of motorcycle riding.
by "Bruce Barley" <lbbbarley@feist.com>

79) [2750] Re: Night fo the Living Dead QRP op
by w4bws@juno.com (Donald E Sanders)

80) [2751] Arizona Travel info (non QRP)
by "David F. Kurth" <dfk@col.hp.com>

81) [2752] Toroidal Cores Color Code
by Ed Manuel <n5em@flash.net>

82) [2753] Re: More Elmer statistics
by w4bws@juno.com (Donald E Sanders)

83) [2754] FT-77
by Phil Rutledge <rut@mcrut.mv.com>

84) [2755] Re: Let's do FYBO! (NEWBIES TOO!)

by Joe Gervais <vole@primenet.com>

85) [2756] Re: NA Sprint & FYBO collision!
by Joe Gervais <vole@primenet.com>

86) [2757] Re: Board shorts and the zen of motorcycle riding.
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>

87) [2758] Re: Night fo the Living Dead QRP op
by wd4nak@juno.com (CHARLES E HUX)

88) [2759] Re: NA Sprint & FYBO collision!
by "Walter Dufrain Jr." <walter@inlink.com>

89) [2760] FS: TenTec Parts
by ckrelic@usaor.net

90) [2761] Re: Toubleshooting in the rain (or what we did instead of going to Norcal)

- by Ed Loranger <we6w@qsl.net>
- 91) [2762] Re : Marshall's reported demise
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 92) [2763] Elmer project
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 93) [2764] Elmer statistics
by Mel Evans <MelEvansGM6JAG@compuserve.com>
- 94) [2765] Sunday morning
by Tellefsen Bob-CNSE97 <cnse97@lmpsil02.comm.mot.com>
- 95) [2766] Ferric Chloride aquatious solution MSDS data sheet
by "Bruce Barley" <lbbbarley@feist.com>
- 96) [2767] Re: Arizona Travel info (non QRP)
by Roger Hightower <n7kt@earthlink.net>
- 97) [2768] Re: NA Sprint & FYBO collision!
by Paul Harden <pharden@aoc.nrao.edu>
- 98) [2769] Elmer Project: Name
by Ed Manuel <n5em@flash.net>
- 99) [2770] Re: AT11 RFI experiment
by Bill Howell <bhowell@mail.utexas.edu>
- 100) [2771] Re: economic reality
by olyellr@iglou.com
- 101) [2772] NorCal Feb. 1st Meeting Report
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 102) [2773] FECL information
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 103) [2774] Ham demonstration in Seattle?
by Rohn <rohn@pubrats.com>
- 104) [2775] Novice Nostalgia
by ji3m@maxwell.com (James R. Duffey)
- 105) [2776] FYBO Plans ARRRGGGH
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 106) [2777] Re: Ferric Chloride aquatious solution MSDS data sheet
by wmcshan@REX.RE.ouhsc.edu (Mike McShan)
- 107) [2778] Neat FYBO Tales on the Web
by Joe Gervais <vole@primenet.com>
- 108) [2779] Bazooka Ant. Optimised!(we6w)
by Ed Loranger <we6w@qsl.net>
- 109) [2780] Re: V Calls
by Tim Ahrens <tahrens@inetport.com>
- 110) [2781] SPRAT Reprints Vol 1 - Vol 5 (1979 - 1997)
by Sam Billingsley <SBillingsley@usaninc.com>
- 111) [2782] Re: pixie II (schematic)
by Charlie Panek <charlier@lsid.hp.com>
- 112) [2783] sst
by dave_epps@juno.com
- 113) [2784] Re: sst
by Ed Loranger <we6w@qsl.net>
- 114) [2785] Re: Toroid Cores

by Charlie Panek <charlier@lsid.hp.com>
115) [2786] Contest Question
by Bill Jones <kd7s@psnw.com>
116) [2787] NORTEX QRP Meeting February 1998
by "Joe Spencer" <joes@tcjc.cc.tx.us>
117) [2788] Re: Contest Question (NWQ Digi QRP Test)
by Joe Gervais <vole@primenet.com>
118) [2789] Sure he's a SK but...
by Chris Cartwright <ccart@dns.vidtel.com>
119) [2790] Elmer Project / Math Calculator Question
by Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
120) [2791] toroid measure
by dave_epps@juno.com
121) [2792] FYBO rig enclosure
by Charlie Panek <charlier@lsid.hp.com>
122) [2793] Re: Contest Question (NWQ Digi QRP Test)
by John Evans - N0HJ <jae@codenet.net>
123) [2794] ATTN. MFJ 90'S OWNERS
by RangerSF5@aol.com
124) [2795] OHR Classic
by vllario@eic.ictnet.es (Vicenc Llarion i Zarzoso)
125) [2796] Re: FYBO Plans ARRRGGGH
by Dick G0BPS <Dick@kanga.demon.co.uk>
126) [2797] FOXX-2 advert
by Dick G0BPS <Dick@kanga.demon.co.uk>
127) [2798] Re: Elmer Project / Math Calculator Question
by "Bob Edwards, W4ED" <w4ed@flash.net>
128) [2799] On the third day...
by "Marshall Emm" <mgemm@technologies.com>
129) [2800] KnightSMiTe update
by "Bob Kellogg" <ae4ic@nr.infi.net>
130) [2801] Terminating crystal ladder filters with broadband transformers
by Leon Heller <leon@lfheller.demon.co.uk>
131) [2802] Re: ATTN. MFJ 90'S OWNERS
by Paul Harden <pharden@aoc.nrao.edu>

Date: Sun, 1 Feb 1998 19:11:34 -0500 (EST)
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2672] Re: MAV-11 mini-circuits
Message-ID: <Pine.GS0.3.96.980201191059.26508F-1000000@joxer.acsu.buffalo.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have located a source of the integrated circuits.
Thanks to all for the help.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

Date: Sun, 1 Feb 1998 19:13:42 EST
From: AC6JA@aol.com
To: qrp-1@Lehigh.EDU
Subject: [2673] YAESU VX-1R FOR SALE!
Message-ID: <15fb8d2e.34d50fb8@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

i have for sale a yaesu vx-1r mini dual band ht in mint condition! this is the mini 1/2 watt dual band handitalkie with WIDEBAND receive capabilities from 76 to 999mhz and am broadcast. i have performed the delicate extended tx/rx mod so now receives cellular unblocked and transmits to 174 and 500+ mhz. also included is the optional dc cigarette power adapter which boosts output power to 1 watt! i have all the original boxes, manual, plastic, etc. am asking \$250.00 and will ship!
call or e-mail me if interested.
thanks!

Mike AC6JA
(650) 573-7720 or
AC6JA@aol.com

Date: Sun, 01 Feb 1998 19:53:04 -0500
From: Jim Stafford W4QO <w4qo@america.net>
To: qrp-1@Lehigh.EDU
Subject: [2674] Club web site
Message-ID: <34D518F0.2DCA@america.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

QRP ARCI is proud to announce that our web site may be accessed via the new domain name <http://www.qrparci.org>

As with most web sites, it is constantly evolving. We hope this will be easier to "remember" and make the site more accessible to the QRP community. Dave Johnson, WA4NID, continues to be our webmaster as well as the provider of club information and the keeper of the "roster". Questions regarding the club should be routed his way.

See you in Dayton.

--

Jim Stafford, W4QO ->NoGaQRP Group<- RadioActive Schools(sm) -
11395 West Road ->VP - QRP.ARCI<- Using amateur radio as
Roswell, GA 30075 <http://www.america.net/~w4qo> a teaching tool in
770-993-9500 Fax:770-993-8932 Internet: w4qo@amsat.org north Georgia.
QRP-L#267 QRP-ARCI#6515 G-QRP#5588 MiQRP#897 NorCal#1092 CQC#307

Date: Sun, 1 Feb 1998 17:54:58 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2675] Re: Novice Round-Up?
Message-ID: <Pine.LNX.3.96.980201175427.13414M-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Feb 1998, Thomas Isgro wrote:

> No, the ARRL dropped it, but the FIST Club took it over as it fits in
> with our aim of developing new CW operators.

I waited a few messages to see if anyone else would ask, but nobody has.
So I will... :)

What is the Novice Round-Up? :D

=====
KC5TJA/6 | -| TEAM DOLPHIN |-
QRP-L #1447 | Chief Architect and Project Founder
 | (web page under construction)

Date: Sun, 1 Feb 1998 16:55:30 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Floyd Smithberg <flydnq7x@primenet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2676] Re: NA SPRINT SSB
Message-ID: <Pine.SUN.3.90.980201165221.26152A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Feb 1998, Floyd Smithberg wrote:

> Band	QSOs	Points	Mults	Countries
> 40SSB	42	42	10	1
> 20SSB	15	15	9	0
>	-----			
	57	57	19	1

> Final Score=1140
> Hope this will give other contest beginners an idea of what can be done with
> QRP and modest stations.

Very good job Floyd and I'll bet you will be on top of the QRP list!

Hope to cu next weekend in the CW side.

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 02 Feb 1998 02:00:53 GMT
From: mwattcpa@earthlink.net (Marty Watt)
To: tcg@k4ro.net, qrp-l@Lehigh.EDU
Subject: [2677] FS: MFJ-490 Memory Keyer and Bencher Combo
Message-ID: <34d619c3.14197093@mail.earthlink.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: quoted-printable

=46or Sale or Trade:

MFJ 490 Memory Keyer and Bencher Combo. Mem keyer has four memories, =
menu
driven for most features, mounts to Bencher paddles. Lists

Current needs:

Compact 25+amp supply for TS-50s/AT-50
Wilderness Sierra QRP rig
GPS
Digital Computer Scanner (Document, not RF)
Digital Camera.

--

72 es 73 de Marty, KM7W

=46ranklin, Tennessee <http://home.earthlink.net/~mwattcpa> =
=20
NorCal #2031 -- ARCI #7514 -- QRP-L #0953 -- AK/QRP #098 -- Grid EM65

Date: Sun, 01 Feb 1998 17:39:02
From: Mark Kesner <marklori@visuallink.com>
To: qrp-l@Lehigh.EDU
Subject: [2678] Fox
Message-ID: <3.0.3.16.19980201173902.219f3b62@visuallink.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well I finally worked a fox! Kinda'. I finally managed to hear Dan
(N8VZU) through all the QRM and got my call through. I had the FT757
cranked down to 5 watts. I don't know if he got all my info or not as the
QRM took him out after I came back... but it was a challenge and fun! The
sigs were really up and down.

I'll be back,
Mark
KC4GIA

Date: Sun, 01 Feb 1998 18:18:21 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-1@Lehigh.EDU
Subject: [2679] FAR Circuits NorCal Tuna Tin 2 Boards
Message-ID: <3.0.1.32.19980201181821.00775e84@dpol.k12.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I talked with Fred Reimers, of FAR Circuits last night and he has the boards for the NorCal Version of the Tuna Tin 2 ready. If you want to build an updated version with modern, easy to find parts, the board is available from FAR Circuits. Here is the info:

Order the NorCal Tuna Tin 2 Board, (please specify the NorCal version) at \$5 each plus \$1.50 S&H for up to 4 boards from:

FAR Circuits
18N640 Field Court
Dundee, IL
60118

Here is a parts list for the Tuna Tin 2:

- 2 2N2222A Transistors
- 2 .1uF mono caps
- 3 .01uF mono caps
- 1 100pF disc cap
- 1 220pF disc cap (it calls for a 250pF, I didn't have one so substituted what I had.)
- 1 220pF Silver Mica Cap or disc ceramic (100V)
- 1 270pF Silver Mica Cap or disc ceramic (100V)
- 1 22uF/25V Elect. (Schematic calls for 25uF, another sub here)
- 1 56 ohm resistor
- 1 100 ohm resistor
- 1 220 ohm resistor
- 1 1K resistor
- 1 4.7K resistor
- 1 8.2K resistor
- 1 47K resistor
- 1 22uH choke or 7 turns #26 enameled wire on FT37-43 Toroid
- 1 FT37-43 Toroid 14 T #26 Primary, 7T #26 Secondary
- 1 T37-6 Toroid 21 T #26 enameled wire.
- 1 3 pin SIP strip, with center pin cut off (crystal socket)
- 1 7.040 crystal
- 1 1/8" jack
- 1 SPDT Toggle Switch
- 3 RCA Chassis Mount Phono Jacks
- 1 Tuna Fish Can (contents removed)
- 3' #26 enameled wire

Short strands of hookup wire.
4 rubber feet
3 right angle brackets tapped for 6-32 or standoffs
6 1/4" x 6-32 panhead screws
3 6-32 nuts

I will get the parts placement to Jerry Parker and George Heron to put on the NorCal and NJ QRP Club web pages tomorrow. Also, I will have a list of part reference numbers tomorrow. 72, Doug, KI6DS

Date: Sun, 1 Feb 1998 21:17:39 EST
From: Jerrydeen@aol.com
To: qrp-1@Lehigh.EDU
Subject: [2680] Buy/Sell on internet
Message-ID: <c2b027b3.34d52cc6@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi gang-

Not strictly qrp, although items will be.
I have some stuff I would like to sell/swap on this and/or other lists.
However, this is new to me. Can anyone give me a lists of caveats, hints, methods of payment, etc. to use that are acceptable to both parties involved?

If this offends anyone, sorry. Please reply to private e-mail address to avoid cluttering the qrp-1 list.

Thanks 72 Jerry WB0T

Date: Sun, 1 Feb 1998 19:31:30 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: "Hendricks, Doug" <ki6ds@dpol.k12.ca.us>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2681] Re: FAR Circuits NorCal Tuna Tin 2 Boards
Message-ID: <Pine.LNX.3.96.980201193052.134140-100000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

To: QRP <qrp-1@Lehigh.EDU>
Subject: [2683] Diodes
Message-ID: <34D5359F.6A668DA5@VoyagerOnline.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I own a Tentec Century 21 that I use for my Qrp work. I noticed that TT uses 4148's in the front end bridge and 4154's in the product detector. My question is: Are these acceptable or is there a better diode that I could use ?? I am aware that they need to be closely matched. I was thinking that hot carrier type may be better suited for this application. Your thoughts ??

72/73..Ed

p.s. 40 meters was really elstinko tonite..lotta qrn-qsb..oh well

Date: Sun, 1 Feb 1998 21:44:42 EST
From: N10DL@aol.com
To: qrp-1@Lehigh.EDU
Subject: [2684] FOX? What Fox...
Message-ID: <d86343b5.34d5331d@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Tried again tonight to try and snag the fox but as usual, the door was closed here in NH. did not even hear any of the hunters....Will keep trying...
See ya next time

BTW, Just finished my SST today, turned it on for the first time today and heard many stations but had to run out before I could get on the air with it. It took a while to tune up as I was using a metal screwdriver to tune with. As soon as I went to the store and got some plastic tool's the power came right up to where it should have been. (2Watts)came home tonight and the band was toooo quiet. Taking it to the office with me tomorrow to try it out during the morning when the band is better. I'm just going to hang my Antennas West antenna out the window and see what happens.
This is a great kit for someone who does not r3eally know too much about kit building. I would highly recommend it to anyone who is just starting kit building.

Date: Mon, 2 Feb 1998 08:01:19 +0500
From: "Gobrick, Robert (rgob)" <rgob@tengizchevroil.com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [2685] Re: 60's Twilight Zone
Message-ID: <c=GB%a=Infonet%p=Tengizchevroil%l=KZTCOV-MSX2-980202030119Z-648@kz-tz-hv-msx01.tengizchevroil.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

QRP-L Gang,

It's happened - my twilight zone was warped by the 50's guys (Sunset brigade). I believe (and I have to say believe since back in the 60's there was a lot of "smoke" in the air that wasn't coming from solder fumes) that I made some wrong observations in my "recollection" of being a ham in the 60's.

First - Full Cross band HF CW is legal - what was not legal was Full Cross Band HF AM (Amplitude Modulation) since it took up gobs of bandwidth. I couldn't remember if my DX-60 did AM - oh my...

Second - My William Orr balun (which was basically a quarterwave coax shield braid that fit over the twinlead like a sock) was mainly used with 75 ohm twinlead (do they make that stuff anymore?) and not 300 ohm twinlead. Anyway I don't have William Orr's Wire Antenna Book (the older blue cover one) handy so I can't verify this. Also does anyone know if the "new" revisions of this book still show this type of balun?

I'm posting this since I don't want bum information to be out here on the QRP-L list - this group is just too classy for bum information - hi.

Cheers 73/72 Bob UN7/N0EB

PS: thanks to the guys who wrote me off line about the above.

QRP-L 60's Twilight Zone Check-in,

.....
Antenna: Direct from a well tabbed William Orr Wire Antenna Handbook - 40 meter dipole strung between two trees fed with 300 ohm TV Twinlead from Tandy (actually White's before it became Radio Shack). Used a special coax shield sheath at rig end for a balanced to

unbalanced line match (poor kid's balun).

Obligatory QRP - only ran 75 watts although that 6146 could pump out some more. Achievements - Full Duplex Cross Band CW (40 and 15 meters) with my "good" teenage buddies in the next town. Not legal and was reminded of such by my Tech School teacher/elmer Mr. Van Fields. Got to remember I WAS part of the 60's generation - hi.

Gawd - glad I got this off my chest after all these years - I feel "reborn".

Cheers 73/72 Bob UN7/N0EB

Date: Sun, 1 Feb 1998 21:11:22 -0600 (CST)
From: KB9JJA QRP Account <qrp@thekeep.mcs.accessus.net>
To: qrp-1@Lehigh.EDU
Subject: [2686] Heathkit web page
Message-ID: <Pine.LNX.3.93.980201211002.17263A-1000000@thekeep.mcs.accessus.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have had a New heathkit web page up for a while. Not all QRP, but do have information on the HW7/8/9. Including service bulletins from Heath.

<http://users.accessus.net/~dwentz/kb9jja/heathkit>

Thanks, and 73's de kb9jja/dale

Date: Sun, 1 Feb 1998 19:06:22 +0000
From: flyer@hooked.net
To: qrp-1@Lehigh.EDU
Subject: [2687] Relicensed After 48 Years
Message-ID: <199802020305.TAA06798@mom.hooked.net>

I let my license expire 48 years ago while I was off at school and in

the Air Force. I took, and passed, the tests for a General Class License today in Concord, CA. And I have a new call already.

Many of you have helped and encouraged me during the past few months in one way or another. I thank those people and all the people on the List. I look forward to getting on the air and contacting many of you. I'll be getting on 40 as soon as I can get the NW40 kit together and some sort of antenna up.

Mark Smith KF6PIL Pleasanton, CA

Date: Sun, 1 Feb 1998 21:50:30 EST
From: N9DD@aol.com
To: QRP-L@Lehigh.EDU
Subject: [2688] Fox: Wednesday Night Fox N9DD
Message-ID: <6314bdf9.34d53478@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hi Gang

My second try as the Fox comes on Wednesday night (Feb. 4th USA time). That is Feb 5 UTC. I will be on from 0100 - 0300 and will try for 7.042 MHz as a starting frequency.

I was blessed with unbelievably good conditions on my first stint as Fox this season. I'm hoping that the poor conditions over the last week are behind us and that I'll be able to go for another good run.

I've put up an additional antenna that favors the NE (a 40 meter sloping dipole). Please be patient. I may switch from my horizontal loop to it occasionally and may be able to pull a few extra New Englanders out. I'll try to use the RIT and look for callers above and below my frequency.

I hope to work you ALL Wednesday night!

73,

Tom N9DD QRP-L # 32
South Bend, IN

Date: Sun, 01 Feb 1998 21:59:39 -0500
From: Hank Kohl K8DD <k8dd@contesting.com>
To: qrp-1@Lehigh.EDU
Message-ID: <3.0.1.32.19980201215939.00cbbff0@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRP-ARCI FDIIM Dayton Hamvention 1998

The Dayton Room List is here!

We have the Days Inn Dayton South "QRP-ARCI Block of Rooms" list from Dayton 1997.

There were forms at the QRP suite to be filled out and left in the box at the suite to get on the list for this year. The same thing will happen again this year. I will have a big sign that says "Leave the filled out form in the box!".

I have a list of about 36 calls (two want 3 rooms each - see below as to how that will be handled) sorted by date of request. They will be added onto the "QRP Block of Rooms" list as it came to me.

The rate for the rooms are:

\$72.00 plus 12.5% tax and a \$1.00 safe deposit (if you use it - make sure that you let the front desk know if you do or do not want the use of the safe deposit box).

That comes out to \$81.00/nite w/o the safe.

You can put as many bodies in the room as you can live with!

MULTIPLE ROOM REQUESTS:

If you have requested multiple rooms, and there are rooms available, you will be assigned your first room request and you will be moved to the bottom of the list. If there are rooms available when we get there, the next room will be assigned and you will be moved to the bottom of the list. And so on. This is being done to accomodate as many individual requests as possible. Thank you for your consideration.

Since I just got the list today, Sunday February 1, 1998 - And the possibility exists that I may be going to Atlanta, GA Wednesday February 4 for five days, I am getting this out so everyone who is looking for rooms at Days Inn Dayton South QRP-ARCI FDIIM Headquarters will know where they stand, if there are any rooms available and what are your chances of getting a room with the QRP-ARCI Block of Rooms.

The following calls (in no particular order) are on the list and have a room:

wo3b, w8iqb, ka3zow, w9ya, k5fo, nn1g, nc8n, kg8ok, wb8vge, n9dd, k8dd, wa8hdr, kg8sj, wa2ecp, n8ayy, w0pfr, ke0mc, ke4big, g4wif, ki6ds, wa6ger, w8kc, n5em, w1fmr, ae4ic, w7el, wa8mcq, wj2v, k8aqz, ac8w, wa5abs, kd8g, wb8uuu, pa0???, rsgb, n8et, wb8lcz, wb4taj, wb0gaz, w1hue/7, jr3qov, kd8mk, ka0gkc, n2jgu, wb9flw, w2my, ki7mn, n7ri, ve3jc, k5hgb, ww4ml, w6toy, 7j3aal, va3jff, aa1of, wa9flx, n4tme, wb0iqk, n6cm.

If you feel you have been missed, let me know.

By next weekend I will be sending everyone a confirmation number. It will be up to each of you to call Days Inn with that number and a credit card. But not until I send you the confirmation number so that Days Inn can match you up with the list that I am going to fax them later this week or early next week.

Again ----- If your call is on the list, you have a room. If you think your call should be on the list and isn't - send me an email. Please include your full name and call.

At this point there are still rooms available.

Just as a little light at the end of the 1999 Dayton Hamvention tunnel.....

QRP-ARCI has a block of rooms at Days Inn South for 1999. But you can not sign up for a room in 1999 until Dayton 1998!

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS (k8dd@tir.com)
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM
*/ QRP-ARCI - Director MI-QRP - Vice Pres.
*/ <http://www.QRPARCI.org>
*/ <http://www.geocities.com/capecanaveral/2844/miqrp.htm>

Date: Sun, 01 Feb 1998 19:19:28 -0500
From: Michael Pratt <mtpratt@budsters.com>
To: qrp-l@Lehigh.EDU
Subject: [2690] Toroidal Cores

Message-ID: <34D5110F.590A1AD9@budsters.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can some one tell me if there is a trick to finding out how to identify Toroid cores? Is there a color code or a cheat sheet to figure em out? for example T-50-2 or 1? Also are toriods better that form type or air type? Thanks

Mike
KB0EPY
Kingston Washington

Date: Mon, 2 Feb 1998 03:25:55 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [2691] SPICE and 2N2222As
Message-ID: <199802020325.DAA11111@chuck.dallas.sgi.com>

Gang,

I have been playing around with some solid state SPICE parameters for the 2N2222A and some measurements to check them out.

Modeling with RCG version of 2G6 (this on a 486 PC), SPICE2G6 FORTRAN version, and SPICE3F4 the C version.

Both the PC version from RCG Research, Inc. and the FORTRAN SPICE2G6 versions are available via ftp from ftp.lehigh.edu. See the welcome message that you got when you subscribed to QRP-L in order to get there and find them.

I promise to make available the SPICE3F4 version as soon as I determine the problem with it and that is the reason for this posting. The RCG Research PC SPICE and the SPICE2G6 agree on results and match almost exactly the measurements that I made. The 3F4 version is off by a significant amount, well OK 20% or so and that is way too much.

I am including the SPICE data set with this posting. If anyone has access to SPICE3F4 on any system, please run this and let

me know what you get for each of the 5 curves at 5V for Vce.
The collector current I(vic) should have values of 8.22, 46.16,
164.10, 346.40, and 534.40 mA.

This work in advance of the Elmering project and an advanced
project for which I received 500 4.0320MHz crystals which I am
starting to match to within 10Hz if possible. The individual
in San Antonio that shipped them to me, will you email me.
The box only had a PO Box number and I lost your previous email.
Thanks a bunch. Your sets will be matched to 2Hz or better. :-)
I may have a printout of your previous email but just want to
make sure that I have it at hand.

I have not tried this file on PSPICE as it may have a slightly
different syntax to get the curves. And the RCG version has no
limitations anyway and is free. I will personally see
Ron Kielkowski this week and thank him for the distribution.

I am also looking for the NE602A SPICE model if someone has one. :-)

For those that want to see what I'm doing, go to page 8.21 in the
ARRL Handbook '95 or later, Figure 8.33(B), except use Vbe
instead of I(b) for each of the curves. I'll put some curves
on the web page later tomorrow as soon as I work out this one
problem.

Thanks in Advance

```
-----cut here-----
Family of Curves for a 2N2222A  --  K5FO
*
* This file creates the family of curves for a 2N2222A
*
Vce 1 0 0
Vic 1 2 0
Vbe 3 0 0
q1 2 3 0 N2222A
*
* 2n2222a model
*
.model N2222A npn(bf=255.9 br=6.092 rb=10 rc=1 re=.00667
+      cjc=7.306p pc=.76 mc=.38 tr=.1762u is=14.34f mjc=.3416
+      cje=22.01p pe=.87 me=.52 tf=.2654n ne=1.307 ik=.2
+      vjc=0.75 fc=.5 mje=.377 vje=.75 ikf=.2847 nc=2 isc=0 ikr=0
+      tr=4.91n tf=411.1p itf=.6 vtf=1.7 xtf=3 eg=1.11 vaf=74.03
+      ise=14.34f xti=3)
*
.dc vce .1 5 .025 vbe .7 .9 .05
```

```
.print dc i(vic)
.options limpts=100000 output=3
.end
```

-----cut here-----

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Sun, 01 Feb 1998 19:05:44
From: maccary@on-ramp.ior.com
To: qrp-1@Lehigh.EDU
Subject: [2692] Time machine indeed!
Message-ID: <3.0.3.16.19980201190544.35d71742@on-ramp.ior.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

"L. B. Cebik" Wrote of his trip back in time:

"If the 60's are the twilight zone of our novice years, then I guess the 50's are beyond the sunset. We did not have 6146s, but only 807s and 1625s. S-38 was only in its B version. 816s and 866s lit the shack in mercury blue. Made our two-stage (osc/amp) rigs from 12AT7s, since the 6U8 was not commonly available yet. Even some remnant designs for 6AG7 one stage rigs built on wood rails, following 1930s traditions...."

My first rigs were cobbled up out of ARC-5's, parts cannibalized from BC191 tuning units and other surplus stuff. My first xmtr was the 40 meter Command set, a pair of 1625's with all of 300 volts on the plates and probably QRP. The first rx was a pre-war SX24 which I later traded for an NC200. The National was light years ahead of the Halli even though both were from the same time frame. When Generals could get on 75 phone (1953 or 54?) I built a 6AG7-6L6 rig plate modulated but then I thought I needed more power, so scrounged parts to build a linear running four 837's in parallel with about 1200 volts on them. Worked like a champ once I figured how to tune and load it to my Zepp. Didn't realize the importance of SWR before the linear and had lots of fireworks and flashovers.

Now well into my 7th decade, I still rather put something together myself and have the satisfaction of seeing it work, that to buy some off-the-shelf whizzbang to plug and play.

The "Sunset Kid"

Mac

Date: Sun, 1 Feb 1998 22:25:09 EST
From: RangerSF5@aol.com
To: EPAQRP-L@Lehigh.EDU, QRP-L@Lehigh.EDU, NJQRP@NJQRP.ORG
Subject: [2693] thanks for the help
Message-ID: <313c7c69.34d53c97@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Many thanks to all who responded in my quest for the ultimate
The lost address
The rig is waiting for me
Dave,
Thanks for holding it and displaying your faith in me
Bob
WA2HOQ

Date: Sun, 01 Feb 1998 22:40:14 EST
From: kb0rol@juno.com (Bradley L Mugleston)
To: mgemm@mtechnologies.com
Cc: qrp-l@Lehigh.EDU, cqclist@lists.sni.net
Subject: [2694] Re: Night fo the Living Dead QRP op
Message-ID: <19980201.201832.6919.0.kb0rol@juno.com>

Marshall,

Sorry to hear about your death. Could I, ah, have your radio equipment?

de KB0ROL, Brad

On Sat, 31 Jan 1998 12:06:51 -0600 "Marshall Emm"

<mgemm@mtechnologies.com> writes:

>Hi, Gang--

>

>Any 73 readers out there PLEASE think about writing a letter to the
>editor about the stupid comments by "Dr." Hal (Feb issue), who is
>just a big crybaby. Tell 'em we'll all turn in our licenses now and
>he can have lots of fun working the hams who meet his standards--
>both of them.

>
>I'm having trouble getting going this morning-- didn't sleep
>well last night. In fact, you're probably not reading this because
>it appears that I am dead.
>
>I attempted to purchase a cell-phone yesterday and was told that my
>credit report showed me as being deceased. To the best of my
>knowledge that is incorrect, and I do intend to pursue the matter with
>all available means.
>
>Turns out the report originated from Equifax. A
>business like the cell phone company can evidently get
>them on the phone and be told that I am dead, but in
>order to prove that I am alive I have to request a
>credit report from their automated system. It will be
>mailed to me and after I get it I can request an
>investigation. There appears to be absolutely no way to
>get a real person on the phone so that I can explain
>that I am still walking around. This is of some concern
>because my wife Wendy is an RN and she tells me that the longer I am
>dead the harder it will be to come back.
>
>And I find it slightly ironic that that they say I am
>dead, but will still send me a copy of my credit report!
>
>Fortunately, I can find nothing in Part 97 to say that an operator
>must cease transmitting when deceased, so I guess I'm merely dead,
>not SK. More irony, perhaps.. a deceased person can hold and use an
>Amateur Radio license, but can't get a cell phone.
>
>Well, even us dead guys gotta work.... gotta get the estate sale
>ready and stuff.
>
>
>73
>Marshall Emm
>N1FN/VK5FN
>n1fn@mtechnologies.com
>Milestone Technologies
>Software, kits, tools...
><http://www.mtechnologies.com>
>(303)752-3382
>--
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>

Or call Juno at (800) 654-JUNO [654-5866]

Date: Sun, 01 Feb 1998 22:49:32 -0500
From: Jack Mc Kie <mjmckie@frontiernet.net>
To: qrp-1@Lehigh.EDU
Subject: [2695] FS: TenTec Argosy, Icom IC820H VHF/UHF, RS HTX-202
Message-ID: <3.0.1.32.19980201224932.0069a474@mail.frontiernet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

For Sale:

1)Tentec Argosy w/226 crystal calibrator,219 250mhz CW
filter,223 Noise
blanker, 224 Audio CW filter, mic., 937 power supply,circuit breaker, MFJ
949E tuner, J38 key, Manual \$450.00 + shipping FIRM

SOLD 2)Icom IC820H tranceiver w/sm-6 mic, vox, MFJ SOLD1278B data
controller, astron 20A power supply All SOLDin good condition! \$950.00 +
shipping

3) Radio Shack HTX-202 nicad battery, vox, mic, definitely used but in
good shape. \$150.00 + shipping firm.

Might take QUALITY 40m qrp rig in trade. Please
reply via e-mail or
at (716)581-1399 evenings before 10PM.

Date: Sun, 01 Feb 1998 22:33:01 -0500
From: Hank Kohl K8DD <k8dd@contesting.com>
To: qrp-1@Lehigh.EDU
Subject: [2696] Dayton Rooms *** Dayton Rooms
Message-ID: <3.0.1.32.19980201223301.00d3e740@192.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The Dayton Rooms message got out of
here somehow with out a Subject: line.

If anyone needs another copy of it, let
me know and I'll resend it direct.

73 Hank K8DD

*/ Hank Kohl K8DD k8dd@contesting.com
*/ ARRL TS (k8dd@tir.com)
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM
*/ QRP-ARCI - Director MI-QRP - Vice Pres.
*/ <http://www.QRPARCI.org>
*/ <http://www.geocities.com/capecanaveral/2844/miqrp.htm>

Date: Sun, 1 Feb 1998 20:52:15 -0700
From: "Ron Smith" <resmith@primenet.com>
To: <flyer@hooked.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [2697] Re: Relicensed After 48 Years
Message-ID: <002001bd2f8e\$0df89ba0\$2f22a5ce@primenet.com.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Way to go Mark! Congratulations and welcome back to the hobby.

72

Ron Smith

Amateur Radio Callsign: KD7VD
Boise, Idaho
E-mail: resmith@primenet.com
QRP-L #1291...ARCI #9580...NorCal #????

Date: Mon, 02 Feb 1998 04:22:29 -0800
From: jerry schnor <jerrylee@cwws.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [2698] NOR-CAL MEETING
Message-ID: <34D5BA85.5D36@cwwww.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

THANKS EVERYONE ENJOYED THE SHOW AND TELL. IT WAS WORTH THE TRIP EVEN IF
THE SWAP MEET WAS MOSTLY RAINED OUT. MAYBE NEXT MONTH WILL BE BETTER
WEATHER. JERRY N6IFW

Date: Sun, 01 Feb 1998 20:21:39 -0700
From: E L D <wd7y@pyramid.net>
To: qrp-1@Lehigh.EDU
Subject: [2699] Question
Message-ID: <19980202041838.AAA1437@dialup138.pyramid.net>
Mime-version: 1.0
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7bit

I am considering building the NorCal 40a and would like to know.

Is there a modification to transmit it at 5W using the 40a ??????

And is ther any other modifications that I should know about ????

73
Ed WD7Y

Date: Sun, 1 Feb 1998 22:47:39 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Michael Pratt <mtpratt@budsters.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2700] Re: Toroidal Cores
Message-ID: <Pine.SOL.3.91.980201222854.22819E-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Feb 1998, Michael Pratt wrote:

> Can some one tell me if there is a trick to finding out how to identify
> Toroid cores? Is there a color code or a cheat sheet to figure em out?

> for example T-50-2 or 1? Also are toroids better than air
> type? Thanks

```

      FT - 50 - 2
      ^   ^   ^
      |   |   |
CORE TYPE:  |   |   | -- Material (permeability) code
FT=Ferrite  ---|   |   | See below
T=Iron power---|   |   |
              |
      CORE SIZE CODE
      -37 = .375 in. dia. (O.D.)
      -50 = .500 in. dia.
      etc.
```

Permeability codes:

	T-37 CORE	T-50 CORE
-2	$\mu=10 = 40\text{uH}/100 \text{ turns}$	$49\text{uH}/100 \text{ turns}$
-6	$\mu=8 = 30\text{uH}/100 \text{ turns}$	$46\text{uH}/100 \text{ turns}$
-10	$\mu=6 = 25\text{uH}/100 \text{ turns}$	$31\text{uH}/100 \text{ turns}$
-43	$\mu=850 = 420\text{uH}/100 \text{ turns}$	$523\text{uH}/100 \text{ turns}$

Thus, your T-50-2 is an iron-core toroid, 1/2 inch outside diameter,
with an AL of 49uH/100 turns.

The L in uH = $AL \times N \times N / 10,000$
where N = number of turns (and N x N means N-squared)

If you put 20 turns on your T-50-2, you will have about 2uH using
the above equation.

Of course the actual inductance you get depends on how accurately you
count the turns, how tight you wind it, how close together you make the
windings, the wire size used, and the Dow-Jones average at the time
(i.e., always a magic fudge factor in there somewhere) ... but should
come out fairly close. Note, as soon as a wire passes through the
toroid, it is ONE TURN. Count the number of turns on the inside of
the toroid.

GL, Paul NA5N

Date: Sun, 1 Feb 1998 22:38:36 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: <flyer@hooked.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [2701] Re: Relicensed After 48 Years
Message-ID: <199802020343.WAA13811@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Mark,

Congratulations, and welcome to Ham Radio again! You will soon find yourself wondering about all of those years of fun you missed, as I do. There's been a lot of water over the dam. But, looking forward, there's a lot of water yet to come! Hope to hear you on the air soon.

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Probably, but not nececelery. -- Benny Hill

> I let my license expire 48 years ago while I was off at school and in
> the Air Force. I took, and passed, the tests for a General Class
> License today in Concord, CA. And I have a new call already.

Date: Sun, 01 Feb 1998 22:22:15 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [2702] Troubleshooting in the rain (or what we did instead of going to Norcal)
Message-ID: <34D56617.5831@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Listmembers:

It was mentioned to me that I should mention this finding to the group. I think it was an interesting finding and could perhaps save someone else some time (hair pulling).

I would like to preface this by saying that this in now way is meant to discredit Wilderness Radio. I think their products are first rate. I have been very happy with all my dealings with Bob Dyer and would buy again in an instant. The problem we found could happen with any board from any manufacturer.

6:30AM I wake up to rain falling on the roof. I quickly get ready and

head off to meet Ron K6EXT (the ham formerly known as KC6VJT) to head off for the swapmeet and the Norcal meeting. We get our stuff in the truck and sit on the driveway sipping coffee and listening to the WX station as the rain starts coming down in buckets. We decide to toss in the towel and take a look at his SST that was newly completed and wasn't working.

We noticed that not much signal was coming through and were unable to peak it. Ron had noticed that if he bypassed the first toroid in the low pass filter with the antenna, the signal level went up about 10x.

On further examination we noticed that the antenna was a DC short to ground. Looking at the schematic we could not see a reason for this. Finding no solder bridges, we figured that one of the caps in the low pass filter must be shorted internally. We pulled them out one by one and the short persisted.

After pulling out all components in the low pass filter, the trace was isolated and the short still was there. We figured it must be in the BNC jack and pulled that out. Upon checking it we found that was not shorted either. The trace on the board was still shorted.

We carefully examined the board and could find no problem.

After some discussion on whether we should go back to playing checkers on the veranda and leave this to the real hams, we figured there must be a short. If we can't see it, it must be under the soldermask and under the silkscreening. I carefully scraped off the silkscreen near the one of the pads and could see a tiny bit of unetched copper under the soldermask. We scraped this free and the short was gone.

After replacing the components that we had removed and peaking the cap, we had a nice signal and picked up many stations.

I am not sure what the moral is, but check those boards carefully. Weird stuff happens.

We felt bad to have to miss the meeting, but we had fun, learned alot and had a good ham day.

Now if it would only stop raining long enough to tweak my antennas for FYBO.....

--

73 de Jeff AC6KW
grudin@vdbbs.com

QRP-L #16

Exotics

Norcal QRP #1292

Cruz

California

Private Practice : Companion Animals and

Ocean Animal Clinic / Cat Clinic of Santa

Santa Cruz,

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Mon, 2 Feb 1998 04:49:32 -0700

From: "Charles L. Stackhouse" <cstack@safelink.net>

To: <qrp-l@Lehigh.EDU>

Subject: [2703] Connect radio to soundcard?

Message-ID: <19980202045625595.AAA304@safelink.safelink.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

I recently downloaded the freeware program SbFFT from the Website mentioned on this list. This software does audio spectral display and filtering. I can play audio CD's and run a variety of filters so the software works fine.

My question -- How do I hook up one of my radios (QRP of course) to the soundcard to use this software for audio filters. I have a Soundblaster AWE 32 which is built on the motherboard of this Micron computer. The obvious method of a direct plug between the receiver headphone jack and the "Line In" on the card does nothing. None of the software volume controls or the info in the Help Topics did the job. Of course there is no documentation on the soundcard. Telephone tech support said the "Line In" jack is always active so

he could give me no help.

I am probably missing something very simple. Any advice greatly appreciated.

Charlie WA2IPZ

From the High Desert of the Snake River Plain, Burley, Idaho

Date: Sun, 01 Feb 1998 23:20:55 -0500

From: Erv <kb8tnq@voyager.net>

To: k8dd@contesting.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2704] Dayton Rooms
Message-ID: <34D549A6.7FB8B289@voyager.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hank:

If you would, (unless Ade gets this too), could you let him know that I got a room in the Days Inn South? I am told that's where all the qrp'ers will be and I wanted to check it all out.

Looking forward to Dayton, 98'

7-3,
Erv KB8TNQ

--
Please visit our Web Site at:
<http://www.qsl.net/kb8tnq>

"Dare to Dream, It Sets Your
Spirit Free!"

Date: Mon, 2 Feb 1998 00:33:37 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: qrp-1@Lehigh.EDU
Subject: [2705] High gain amplifier...
Message-ID: <Pine.LNX.3.96.980202001418.13414P-1000000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I haven't exactly completed all of my tests yet, but I'm writing this to say that I believe I'm on the right track. I implemented four of the five stages (representing about 80dB best case).

When I hook the circuit up to an oscilloscope, with the probe on the last stage implemented, I get NOTHING. Absolutely nothing! But when I put my finger on the amplifier input, I get several volts p-p of signal. The signal seems to be at a frequency of 1.3MHz or so. Strapping a diode on

it, and viola -- a local AM station... :D

I must represent an overall attenuator, though, because if I put a long wire antenna on the amplifier input, I overload the amp, and the signal actually starts clipping... :)

(I guess this means I have a shocking personality! HAR! OK...I'll crawl back into my hole again...)

I constructed the circuit using dead-bug/ground-plane construction in about four hours tops. The circuit, though designed to be run from 9V battery, will also run from 12V as well. I thought that, with five transistors all in a row, it'd be difficult to build. Quite the contrary -- once I got into the rhythm of things, I found I was done building the circuit in about two hours (and that includes chatting with friends, watching Tenchi Muyo anime, and various other recreational activities). Of course, it also took me about two hours to figure out how best to place the components too... :-)

The thing I hadn't yet done was run the circuit off a wall-wart. If my theory is correct, I should get lots of 60Hz hum in the circuit. If not, I'll be pleasantly suprised... :) At any rate, I haven't yet had any audio oscillations, but I'm definately going to keep an eye out for such things in the future.

Schematics to come in the (distant) future for those who are interested.

```
=====
KC5TJA/6      |               -| TEAM DOLPHIN |-
QRP-L #1447   |               Chief Architect and Project Founder
               |               (web page under construction)
```

Date: Sun, 1 Feb 1998 23:35:50 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-l@Lehigh.EDU
Subject: [2706] Let's do FYB0!
Message-ID: <Pine.SOL.3.91.980201231002.22819H-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

Gettin' ready for FYBO this saturday?

Just heard on the Art Bell Show that for reasons that can't be explained on the air, NASA has suspended all future space flights and basically quarantined space for all manned flights until further notice ... which is why they recalled the MIR fella, the space shuttle returned, etc. and will be excuses why there's no more flights for awhile.

SHUCKS ... there goes my FYBO plans. Was gonna velcro myself to the next Shuttle Mission and take advantage of that big -330 degree C bonus point!

This is a pep-talk to those who are not very active on-the-air.

PARTICIPATE IN FYBO ... even if from the comfort and privacy of your own, heated home with indoor plumbing. All of the QRP contests are designed primarily to get YOU on the air. If all you have is an old Voice of America transmitter ... don't matter. Crank it down as far as it goes and work the contest. If your code speed is rusty ... don't matter. QRPers are real good about matching your code speed and just want to work you. (Afterall, you ARE worth a few points, no matter what the code speed). And it's been so long since you've had a CW QSO, you're hands get sweaty thinking about it ... don't matter. Contest exchanges are simple and routine. If your CW is shaky, listen to a station work a couple of guys, jot down the exchange, then jump in and call him yourself. You've got his exchange if you goof it up or get QRM'd. As long as he QSL's you, it's legal and proper. Do that a couple of times, and you'll notice your sweaty palms are starting to dry out.

There's new guys subscribing to this list all the time, and we want you to know you're welcome to join in on the fun. If all you have to give is an hour ... DO IT. The FYBO, sit-out-in-the-snow bonus points are for those who wish to be true to the theme and to maximize their points, but it is an open contest, open to all QRPers. And, you'll get a kick out of working the guys who post to this group regularly. You get to work several hundred famous hams! It ain't like Field Day or Sweepstakes, QRP contests are more informal and slower paced. In fact last contest, it was so slow-paced on 20M ... well, never mind. It just means there's always a little room in there to say hi and have a little brief chit-chat.

So whether operating from a snow-drift or from your home QTH, just join in for a little while and have some fun. For those of us in the field, we ALWAYS appreciate those stations who show up, even for just a little while. You give new points to us all, but most important, we want to work you, say hi, and know we helped get you on the air.

And if for some reason you need a QSL from Arizona for WAS ... there will be a dozen stations on from Pine Top, AZ. I think 2/3rds the QRPers from

<edn4pk@VoyagerOnline.net> writes
>I own a Tentec Century 21 that I use for my Qrp work. I
>noticed that TT uses 4148's in the
>front end bridge and 4154's in the product detector. My
>question is: Are these acceptable or is there a better diode
>that I could use ?? I am aware that they need to be closely
>matched. I was thinking that hot carrier type may be better
>suited for this application. Your thoughts ??
>72/73..Ed
>p.s. 40 meters was really elstinko tonite..lotta qrn-qsb..oh
>well
>
>

You probably won't notice any difference using hot carrier diodes. They tend to be better matched, but the ones in the radio were probably matched when it was supplied. They have lower noise levels, but at HF it doesn't matter.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " /diy_dsp.htm for a simple DIY DSP ADSP-2104 system.

Date: Sun, 1 Feb 1998 23:40:04 -0500 (EST)
From: Scott Bauer <ke3nv@erols.com>
To: qrp-l@Lehigh.EDU
Subject: [2709] Building tip for Ten Tec 1340
Message-ID: <199802020440.XAA07174@smtp2.erols.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello all,

After finishing up the Ten Tec 1340, the last thing that needed to be done was to mark the tuning knob with some paint to use a reference point on the dial. Ten Tec offers a couple of ideas like painting a line on the knob. I was afraid paint would end up everywhere but where I wanted it to be.

After taking a close look at the other two knobs, I noticed they have a white inlay which looks very nice.

What I did was cut a piece of white hook up to the same

width as the knob and glue it into one of the indentations on the knob. It is a perfect fit and matches the other two knobs perfectly as well.

I dont know if anyone here has posted this idea before but it sure worked well for me.

72, Scott w3cv

Date: Mon, 02 Feb 1998 06:33:26 -0500
From: Richard Powell <ripowell@mpna.com>
To: qrp-1@Lehigh.EDU
Subject: [2710] Re: Let's do FYBO!
Message-ID: <1.5.4.32.19980202113326.00687a44@smtp.mpna.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I would just like to publicly announce the fact that I will be on 20M from the start of FYBO untill 1800Z, when I will switch to 80M. During this time I expect my code speed to actually be dropping, as my batteries cool down. so, for you peoples out there who may feel fear... just listen for WB6JBM/8. Don't look for anyone else, just me. No problem. I'll be more than happy to work you! Remember, WB6JBM/8,
Gotta win me some Pork Rinds!

73

/rick

At 11:35 PM 2/1/98 -0700, Paul NA5N wrote:

>Gang,

>Gettin' ready for FYBO this saturday?

>

clip

>

>PARTICIPATE IN FYBO ... even if from the comfort and privacy of your own,
>heated home with indoor plumbing. All of the QRP contests are designed
>primarily to get YOU on the air. If all you have is an old Voice of
>America transmitter ... don't matter. Crank it down as far as it goes
>and work the contest. If your code speed is rusty ... don't matter.
>QRPers are real good about matching your code speed and just want to
>work you. (Afterall, you ARE worth a few points, no matter what the code
>speed). And it's been so long since you've had a CW QSO, you're hands
>get sweaty thinking about it ... don't matter. Contest exchanges are
>simple and routine. If your CW is shaky, listen to a station work a
>couple of guys, jot down the exchange, then jump in and call him yourself.
>You've got his exchange if you goof it up or get QRMed. As long as he

>QSL's you, it's legal and proper. Do that a couple of times, and you'll
>notice your sweaty palms are starting to dry out.

>72, Paul NA5N

>and the NM/AZ FYBO "A Team"

>

>

>

>

Richard Powell WB6JBM TENTEN - 13044

Director of Network Services, JDR Consulting Services, LTD.

ripowell@mpna.com <http://www.mpna.com/ripowell>

ripowell@jdrconsulting.com <http://www.jdrconsulting.com>

Date: Sun, 1 Feb 1998 22:19:31 -0800

From: "ALAN KAUL" <alan.kaul@worldnet.att.net>

To: <qrp-1@Lehigh.EDU>

Subject: [2711] If only I had a Herring Aid 5 back in the 50's-and-60's

Message-ID: <19980202062011.AAA12643@oemcomputer>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

I had a KN7 call back in 1958 (unfortunately never saved the original license) nor the World Radio Labs map of the USA with 'my qth' QSL cards (first run was in blue overlay ink, and the second time I ordered the ink was purple!). My first rig was an S-38E and a homebrew tri-tet 6V6 oscillator (I lived in Spokane and worked someone in Bend, Oregon). I recently found a working S-38 at a swap meet (for \$10) and plan to recreate the original station! I've gotta believe that after almost 20 years of qrp projects and homebrew radios, that virtually everything (including the Pixie and 49-er) would outperform my first rig. I've worked a dozen states with the 49-er including CALIF. to S. DAKOTA!

Moved up to an HQ-100 and DX-20, and when I upgraded to Conditional in January of 1959, a friend's dad built me a Heising plate-choke modulator for the DX-20. It ran about 20W AM and lasted about 6-8 months during that peak sunspot cycle of 58-59-60 before I blew out the powersupply and it melted and took much of the rest of the rig with it -- smelly, messy stuff, probably PCB's!

Then a Johnson 50W Adventurer (used), and eventually a used WRL Globe Chief (90W) and a BC-348. Wish I still had 'em all.

Found my Herring Aid 5 the other day ... still works! I was a few years

behind--didn't make the circuit board til approx 1981-82. It tunes about 7.000 to about 7.090. A little wide and audio is a little weak, but it probably probably outperformed the S-38!!! I used mine (Herring Aid 5) on the bench (using a 9v battery) and never put it in a case. I might just have to ''finish it'' now!

PS- homebrewed the circuit board (it was the first board I ever made)...so there isn't a lot of straight line point to point stuff -- I designed it using large rectangular pads, and it worked anyway. A little hum, now and then, but it copies CW and SSB.

Nostalgia is terrific (but I can't remember why!). :-)

Killing two threads with one message, this is ex-KN7EHW (how I got interested, etc., back in 1958 is on my website) signing off.....

Alan Kaul, W6RCL

Amateur Radio website: <http://home.att.net/~alan.kaul/w6rcl.html>

alan.kaul@worldnet.att.net

w6rcl@amsat.org

Date: Mon, 2 Feb 1998 06:48:59 -0500

From: n3fel@juno.com (Howard D Rubin)

To: qrp-l@Lehigh.EDU

Subject: [2712] PCB Etchant

Message-ID: <19980202.064901.3198.0.n3fel@juno.com>

QRP-L'ers:

I'm looking for a source to supply the etchant used in the production of printed circuit cards. Can anyone point to a chemical house able to supply this in small quantity (2 to 5 lbs) to the retail market?

I recall using ferric chloride about 36 years ago in its anhydrous form (and yes, I am still living to tell about it). I would break off an unmeasured lump of it and dissolve it in hot water, then pour it into a rubber tray. The circuit card would be emersed in the solution until all of the unwanted copper dissolved into solution. Not very scientific, but what did a 14 year-old in the early sixties know?

It probably makes sense to "flood" the artwork on both sides of the double sided layout with copper so as to reduce the amount of etchant needed to form the traces. The flooded region could be stitched together to serve as power and ground conductors.

Regards, Howard N3FEL

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 14:15:11 +0000
From: Luis Alarcon Palencia <ea4dxd@arrakis.es>
To: qrp-1@Lehigh.EDU
Subject: [2713] Re: Relicensed After 48 Years
Message-ID: <34D5D4EF.4FFE@arrakis.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mark,

Congratulations on your success in the examination and by your new
callsign. Welcome to "home" dear "old timer" :-)
Enjoy our Hobby!

72 es DX, Luis
--

Luis Alarcon EA4DXP | <mailto:ea4dxd@arrakis.es>
Madrid, SPAIN | <mailto:lalarcon@arrakis.es>

Date: Mon, 02 Feb 1998 09:01:23 -0500
From: Michael Maiorana <mikemo@ibm.net>
To: qrp1 <qrp-1@Lehigh.EDU>
Subject: [2714] New student list for elmer project
Message-ID: <34D5D1B3.E2E@ibm.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Ok, here is the latest and greatest list of people who want to reserve
a kit to participate in the Elmer project. It is sorted by email
address. Please send all corrections asap. I'm cutting off registration
at 17:00 utc 2/3/98.

This is a great turnout of people! 146 so far.

72507.235@compuserve.com Rick McNelly ke4izh
adam-kanis@uiowa.edu Adam Kanis n2brt
af389@lafn.org David Shalita w6mik
artus@worldnet.att.net Jack w0fnq
bertieh@dancris.com Berti n7xjw
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dbullard@peachnet.campus.mci.net Don Bullard wa4iml
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deutschra@aol.com Ron Deutsch NK0P
dhogan@lightside.com Dan Hogan wa6pby
dkayers@hiwaay.net Danny K Ayers WX4P
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gevans@lightspeed.net Gary Evans AA6R
gmdiana@kodak.com Gary Diana n2jgu
gmen@chevron.com Glenn Menard w6ki
gregoire@endor.com Ernie Gregoire AA1IK
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JLarsen@alascom.att.com Jim Larsen AL7FS
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n1gpy@together.net Frank Alwine kt1vt
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 nu6sn@usa.net Richard Fisher nu6sn
 nystedt@sprintmail.com John Nystedt kj7yn
 orientbob@aol.com Bob Nichols
 penzo@juno.com Michael Penzo kt4fj
 pepperb@govonca.gov.on.ca Brien Pepperdine ve3vaw
 pgsperseng@aol.com Paul aa1mi
 phelbert.rica.net Paul Helbert wv3j
 pierre@cmpe.ubc.ca Pierre Constantineau
 plquick@facstaff.wisc.edu Paulette Quick wb9vhf
 rattray@gpfn.sk.ca Bruce Rattray ve5rc
 rayj@starbase.net Ray Johnston wa2ygy
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 rbayha@ix.netcom.com Bob Bayha k6rkb
 Rgobrick@worldnet.att.net Robert Gobrick N0EB
 ripowell@mpna.com Richard Powell WB6JBM/8
 rli8m@weyl.math.virginia.edu Ralph Irons n7ri
 rob3ert@vegas.infi.net Robert Parks k6aec
 rodriguez@jet.es Goran Hosinsky ea8yu
 rohn@pubrats.com Rohn n0rtx
 ron@fireclay.com Ron Baldwin K6EXT
 ronald_a_pfeiffer@res.raytheon.com Ronald feiffer n1zsw
 russmin@aol.com Russ w0nbu
 sabornis@freenet.columbus.oh.us Steve Bornstein k8idn
 sawicki@worldnet.att.net Felix Sawicki ke4jwx
 scohen@xps.xybion.com Stephen D. Cohen N30IE
 sjolin@swbell.net Dave Sjolín n0it
 skrosner@mindspring.com Stephen Krosner k2zpf
 srichard@aldus.northnet.org Richard Sherman wz2t
 sslyon@worldnet.att.net Seab Lyon aa1my
 stew_w@compuserve.com Stewart Whitehouse ke4yh
 sullivijd@sound.net John Sullivan kg0mz
 swgibson@worldnet.att.net Steve Gibson wb4nbi
 talljazz@teleport.com Dan Presley n7cqr
 tedkell@juno.com Ted Kell kc5cuw
 terresfm@ncia.net Jerry Terres aa1of
 tpettibo@nmsu.edu Tim Pettibone k5oi
 w4fpj@doubled.com Bob Scott w4fpj
 w6toy@erols.com Bruce Muscolino w6toy
 wa8rxi@juno.com Richard Arzadon wa8rxi
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 wb7whi@triax.com wayne Barnhart wb7whi
 wbw95k@timon.acu.edu William Wyatt kc5zgh
 wd4et@juno.com Jeff Greer wd4et
 wgabriel@duke-energy.com Watson Gabriel wb4exw

wheelie@cass.net Arthur Wheeler KC8GTA
wmcfadde@oucsace.cd.ohiou.edu William McFadden wd8rif
wmcshan@rex.re.ouhsc.edu Mike McShan n5jky
wr.moore@att.net William Moore ks4l
Brian Jones g0ukb

Date: Mon, 2 Feb 1998 09:05:08 -0500
From: Derek Brown <DBrown@RFMD.com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [2715] Low Voltage Indicator
Message-ID:
<c=US%a=_%p=RF_Micro_Devices%l=PACHACUTEC-980202140508Z-346@proxy1.rfmd.com>
MIME-Version: 1.0
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I'm looking for a voltage comparator circuit to monitor battery voltage. It should be very simple, have an adjustable threshold, require very low quiescent current (uA??) and drive (source or sink) an LED in the low voltage state. With all the electronic gizmos out there, there's bound to be a custom IC (OP Amp) for this purpose. I realize that any standard OP Amp could be put into service but my desire is to monitor battery voltage, not drain it. I don't wish to re-invent the wheel, who's done this or knows of a suitable device?

Derek, WF4I
Greensboro, NC
dbrown@rfmd.com

Date: Mon, 2 Feb 1998 09:04:00 EST
From: GERALDCUND@aol.com
To: n3fel@juno.com
Cc: qrp-l@Lehigh.EDU
Subject: [2716] Re: PCB Etchant
Message-ID: <34209a87.34d5d253@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Radio Shack sells etchant in the liquid form. \$3.49 for a 16 oz bottle.

Catalog number 276-1535. They also have a small kit with single sided board material, etchant and solvent, 1/16 drill bit (too big), and Sharpie dry marker. The price is a little steep. \$13.99 and that catalog number is 276-1576. I've used it and it turned out good.

Gerald,KE4LIA

Date: Mon, 2 Feb 1998 08:03:03 -0600
From: Bcieslak@ra.rockwell.com
To: QRP-L@Lehigh.EDU
Subject: [2717] Fox Log Form 1-20-98 AE9K WI
Message-ID: <8625659F.004CFF8A.00@ramilwsmt01.ra.rockwell.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Sorry for the delay. Took friday off of work to recover from the hunt.

An interesting evening. Worked some old friends from the w/k arc. Good to hear you Rick(AA9L) and Jerry(N9AW). WA9PWP was mobile and showed up at the front door only minutes after I worked him. His keen ears help pull out a lot of qso's. As a reward I let him have the key near the end. And what was with K0EVZ, No way was DOC in MN. He had the meter pinned here and Paul said he was louder than I was and paul was only a mile away at the time.. We suspect he was in a parking lot down the road. IF thats new antenna I want the design info NOW! The band went completely dead at 02:00 except for a few digital droids. But came back with coast to coast Q's for the last 20 minutes.

This log is the first draft so If I dropped a dit or dah somewhere let me know before I send it off to chuck who was playin poker instead of huntin foxes.

Brian AE9K
and Paul Wa9PWP riding shotgun.

K5ID 559 AR KEN 652 01:00
N9AW 589 WI JERRY 1271 01:01
KU7Y 569 NV RON 17 01:02
N6MM 579 CA HARVEY 318 01:05
WA9PWP/M579 WI PAUL 127 01:07
VE5RC 339 SK BRUCE 886 01:07
K5JHP 559 TX BILL 825 01:09

K2VCO	559	CA	VIC	725	01:10
K5ZTY	559	TX	BILL	473	01:12
W0CH 579	MO	DAVE	618	01:13	
NQ7X 559	AZ	FLOYD		343	01:15
K5VUU	559	TX	ED	1343	01:16
W6ZH 579	CA	PETE	257	01:19	
AB7ST	559	BOB	UT	129	01:20
K1MG 559	CA	MIKE	614	01:22	
K0EVZ	599	MN	DOC	861	01:22
WORW 579	CO	PAUL	2W	01:22	
K10J 559	TX	OJ	732	01:26	
N5JI 569	TX	DICK	1054	01:27	
N7XJW	559	AZ	BERTIE	1259	01:28
AB5UA	559	OK	CLIFF	479	01:30
AB7TT	559	AZ	JOE	191	01:32
W5HNS	559	TX	HENRY	178	01:34
W5FN 559	TX	TIM	586	01:36	
KA5AT	559	TX	LARRY	89	01:38
AA9L 329	WI	RICK	1355	01:39	
AB7Q 549	ID	ANDY	102	01:40	
N5ALO	559	TX	BILL	415	01:41
W5SB 559	TX	BILL	1279	01:44	
WD7Y 449	NV	ED	1389	01:45	
N7GS 559	MT	MEL	715	01:47	
KF6CTA	559	CA	DICK	591	01:47
KI7MN	559	AZ	BOB	271	01:49
N7IR 559	AZ	GARY	1330	01:49	
WE6W 559	CA	ED	0168	01:50	
K5ON 559	NM	GARY	770	01:51	
VE7CQK	559	BC	PAUL	20	01:52
N7KT 559	AZ	RON	62	01:58	
VE5WF/6	559	AB	EARL ?		02:00
KB7MBI	579	WA	ALAN	5W	02:11
K06YA	559	CA	ROB	176	02:14
KI6OY	559	CA	LEE	72	02:16

....BAND DIES-BRIAN AND PAUL DRINK BEER WHILE
CALLING ENDLESS CQ'S FOR 30 MINUTES. THEN SUDDENLY...

N1QQV	529	CT	KEN	1009	02:42
K1CL 559	MA	CHUCK		217	02:45
K6VNX	559	CA	ARLEN	5W	02:46
KC1FB	349	CT	JIM	29	02:55
N6WG 339	CA	BOB	26	02:58	
KF2PF/M 539	NY	NICK	13	02:59	
VE1MT	559	NS	LAYTON	5W	03:00

Date: Mon, 2 Feb 98 6:20:03 PST
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
To: alan.kaul@worldnet.att.net
Cc: qrp-1@Lehigh.EDU (qrp)
Subject: [2718] Re: If only I had a Herring Aid 5 back in the 50's-and-60's
Message-ID: <9802021420.AA01358@wizard.ucs.sfu.ca>

Hi Alan,

My novice call was WN6ZJN. Unfortunately I didn't upgrade til I came to Canada in '74. (Girls and Water Polo were more interesting at the time.)

My Elmer Sam Eckhardt WB6DRD helped me find my first receiver, a National 155 (after the ARC5 that is) , and my first TX was the DX-20.

>
> Moved up to an HQ-100 and DX-20, and when I upgraded to Conditional
> in January of 1959, a friend's dad built me a Heising plate-choke modulator
> for the DX-20. It ran about 20W AM and lasted about 6-8 months during that
> peak sunspot cycle of 58-59-60 before I blew out the powersupply and it
> melted and took much of the rest of the rig with it -- smelly, messy stuff,
> probably PCB's!

Ah so the DX-20 transformer got you too. I ended up haywiring two tv transformers together to replace it. I wonder how many others got a cloud out of that device.

My second receiver was an NC300 that a friend lent me... Now that was a great receiver (relatively speaking)...

cheers, Paul
ve7cqh
email: paul1@wizard.ucs.sfu.ca

Date: Mon, 02 Feb 1998 08:40:27 -0600
From: "Jeff M. Gold" <JGold@tntech.edu>
To: QRP-L <qrp-1@Lehigh.EDU>
Subject: [2719] "THE" Ultimate cheap QRP straight key
Message-ID: <008201bd2fe8\$81181840\$4d0b9595@mm-man.cc.tntech.edu>

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-----=_NextPart_001_007D_01BD2FB6.36653E40
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

OK,

here it is.. picture this if you can, in a place far removed from the =
normal realm of reality, distant in both sight and sound, a place unto =
itself. Here you loose yourself, time has no meaning, the normal rules =
just don't apply.

Sitting on top of a crowded table with all types of electronic gizmos =
all over the place with wires every which way.. is a small circuit board =
with wires hanging out all over the place, a small computer speaker =
hanging off two of the wires. two of the wires are sticking up and are =
stripped back approximately 1.5". This board purchased along with =
various components from Dan's and called a NW80 (for 80 meters).=20

The strange individual approaches the set up and powers on the strange =
device. Hearing strange almost beeping sounds he attempts to answer. His =
means of returning information as a result of connecting the wires and =
disconnecting the wires in precise patterns.. communication established =
and completed.

(OK, I admitt, I may be loosing it)

72
Jeff, AC4HF
Jeff M. Gold, Ed.S.
Manager, Academic Computing Support
Tennessee Technological University
Licensed Professional Counselor
Mental Health Service Provider
=20

-----=_NextPart_001_007D_01BD2FB6.36653E40

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charset="iso-8859-1"
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<DIV> </DIV>

<DIV>here it is.. picture this if you can, in a place far removed from =
the=20

normal realm of reality, distant in both sight and sound, a place unto =
itself.=20

Here you loose yourself, time has no meaning, the normal rules just =
don't=20

apply.</DIV>

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<DIV>Sitting on top of a crowded table with all types of electronic =
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over the place with wires every which way.. is a small circuit board =
with wires=20

hanging out all over the place, a small computer speaker hanging off two =
of the=20

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approximately=20

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completed.</DIV>
<DIV> </DIV>
<DIV>(OK, I admitt, I may be loosing it)</DIV>
<DIV> </DIV>
<DIV>72</DIV>
<DIV>Jeff, AC4HF</DIV>
<DIV>Jeff M. Gold, Ed.S.
Manager, Academic Computing =
Support
Tennessee=20
Technological University
Licensed Professional Counselor
Mental =
Health=20
Service Provider</DIV> </BODY></HTML>

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ogHzLz3gM0jxA1dQKQwRjXiEAhxwA01UppkBKSuSjyVTMh4KuJ6rgnsJhFHAJ1HAAyR0oVpUAmvA
ozVgB0IAXVFCEIsFEZ+qKNLkKBSrCZ37ubxbgGrwBBnzBKTRS3hgVL1UYJeFJFcArgvyR4+yT51j
KZmSZo2yAlfbu9grhzfWSGMIG5U0V+3/cV1ewKpC5itfIFY4NwH71E6GZVgRARGBxITZ079N+B11
MAXfMa+Ztirp8QaQ9wc6+gYL8wZeUI4PsQcdZHeMYAGB0kziiFpnylgSUQiCRL8WXIAM0jH7ViJw
waJS1S+F8ge24gULwgZ5xAZ6CEqBkAcfixWLCAPboQiKgC4TkXnye8E4nHowQEA7rCpJVE5loAd7
ATUfUQjHagihtwe0tja0hgKeFwctSzg/miwnkY8a18NYbHj5pqgrK1UwZ1S9gUSJuRfHSGkToMR7
UAhs4HmgByk6c24Zxik7m8V0zGymUYQ1kqMTMx6LgiwroMbvZgg1Ewj1YgaZIV0FkUfS/6Zu8HWv
dfzIZHci32siXiBUXmB3XyEALBBRWKFYg8qMDAesJaYCKRovmGCzkJzK9VYGeMAaMICneFrJXQBL
tRdRz0QDffCrdJF7+6QriXADMDw3w1c+fqvKx1xvT2oXfvAWeHoiJKB07zQufaBMipKUNIAAKGAB
NHBwmaECBzAAF/AlFCAvc3zM5kxmWnSfUdN8bwA4BwMGntNyVyCqBEE1jJAIFYCLJhAHjJCZFKFu
tUnM5Xz0BA1kPIAeb5CxJiDA1GdMwMxOQFap4NorC1AIEsyFDRACbSgkJmArCBBLmTvQBT3S9aVv
7xkwW/SUIqZOA3E7J5BFJVBj7zEEOP+QMwIGBmhkVHggNXrwNLYSXYQd1KrmAgwiiT69AjSYAlnB
bjJwY6vDouPx2aiUMVTnf0eDBnSGeUFDARso1F5daIVTC0iBRDMYUV8AAZLAi1hAYzNQB3YmH14w
BGhwBnfwBGhw12iwEVAwQncwLATQn18d2GKmbiqgAA0YMwxAgzcgB58BFgZwQj9QhHa2f3QwBVzw
B/CKY1jgN1MDErZS2iId2soFJgZgAUJFedF3A8TCAqCBAnsZIVSgYnwCvEiTNG4hNH3Tjj7dnPQH
1KL92/PlJTe1AoeAIQShCPFDABTAWYWCq1AASELhBGj0B094F4DgiP6rY+oMAycwq4T+BNzgPVpf
sh0quwKGTy8GkJ1x8G61MRsmpF0vaVSLqgYjpdgyxMGYTQd14AeA0IZWeL3hHeBbZVPeDCEXqiGe
pzA9UAQdAQV/SBqVxDF4M0GfCmsfDBJ/IIImJOANPEw11YIVXLOAijlCFY1H/Mim70igokEImFAVI
MA00sAJH4AUjVEJrrwVLAHdsgHELsAIqwi0fTB+pAgOHANojfuTb5ChxQAhsAgDYbukinSQcoIp
Wjg1cJdo0BHhMYtcZAAW+LkExg0sAaHEBKIG0RoFlBPMnCUsmju5AWGgAID90eM4E9v2wFadAer
0xHx0QWFADeFgywbNgJpXugzFRAA0w==

-----_NextPart_000_007C_01BD2FB6.36653E40--

Date: Mon, 02 Feb 1998 09:36:21 -0800
From: LYN WILLIAMS <designserv@ipass.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [2720] MFJ Schematics
Message-ID: <34D60415.A5C0F266@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

So far, my experience with MFJ schematics has not been good -- the one schematic I looked at (949 E tuner) didn't agree with the actual unit.

Date: Sat, 31 Jan 1998 10:16:03 -0700
From: Brad Mugleston <bmug@gwl.com>
To: "'cw'" <cw@qth.net>, "'qrp-1'" <qrp-1@Lehigh.EDU>
Cc: "'kb0rol@juno.com'" <kb0rol@juno.com>
Subject: [2721] radio design help
Message-ID: <01BD2FAD.2844FF20@pps-pc10.gwl.com>
Content-Type: text

Gang,

I know a gentleman that builds robots. He would like to transmit and receive data to/from the robot - wireless. He is not a ham but asked me to help him find a radio/radio kit with the following capabilities.

Range - 1/4 mile max

9600 baud (but higher rates can be accommodated), and

"packets" of no greater than 64 or 128 bytes per packet. Probably a couple of dozen

"packets" or so, per hour.

anyone have any ideas?

Thanks

de KB0ROL, Brad

Maybe we can convince him to get his license and work CW.

Date: Mon, 02 Feb 1998 09:03:28 -0600
From: Jim Parsons <k5rov@worldnet.att.net>

To: designserv@ipass.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [2722] Re: MFJ Schematics
Message-ID: <3.0.3.32.19980202090328.007b69c0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have had the same problem. My MFJ schematics don't agree with the actual wiring. I found this true of the MFJ-989C antenna tuner, and a few other devices.

Jim, K5ROV

At 09:36 AM 2/2/98 -0800, LYN WILLIAMS wrote:
>So far, my experience with MFJ schematics has
>not been good -- the one schematic I looked at
>(949 E tuner) didn't agree with the actual unit.
>
>
>
>

James (Jim), Parsons, K5ROV USAF, Ret.
k5rov@worldnet.att.net QCWA, NWQRP, Fists, ARRL
EX: W1RLA, K5FBB, K4FEO, SV0WN (CRETE), SV0WN (RHODES),
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

Date: Mon, 2 Feb 1998 09:10:55 -0600
From: Kevin Muenzler <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>, "'ddobson@iei.net'"
<ddobson@iei.net>
Subject: [2723] RE: Strange Signal
Message-ID: <01BD2FBA.784740C0@muenzlerk.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

On ddobson@iei.net, Dan Dobson[SMTP:ddobson@iei.net] wrote:
> Hey Group,
>
>My eight year old budding ham was surfing the AM dial
>tonight and picked up a constant CW beacon that was repeating
>the letters "TVX" at about 10 wpm.
>

> Any one have an idea? The exact frequency is unknown. I estimate it at 510.
>
> Dan KG9KF
>

There are lots of beacons and various other unlicensed stations down below the commercial AM band. A very popular area is 185 kHz. This is the colorburst frequency divided by 20. You'll hear lots of three letter CW signals down there. It's called the 1750 meter band. Soon this band will be opened up for Amateur experimentation with "real rules" and regulations. I'm not sure when it will actually occur. It is on the agenda for the ITU conference in 1999. The FCC currently allows unlicensed transmitters down there provided your antenna (including feedline) is no longer than 15 feet and your transmitter power is less than one watt. I've seen several say that the antenna can be no longer than 50 feet. Check before you build such a thing. Of course your receiving antenna can be as long as you want it to be. There was an article in QST several years ago for building a transceiver for 1750 meters. I'll see if I can find the issue. There are many amateur operators that have beacons down there. Using your ham call is discouraged but you can use the last three letters of your call, your initials, whatever you want. I occasionally put a signal out on 188 kHz with the call "RUE."

Kevin, WB5RUE
wb5rue@stic.net

Date: Mon, 2 Feb 1998 09:08:12 -0600
From: Bcieslak@ra.rockwell.com
To: QRP-L@Lehigh.EDU
Subject: [2724] Marshall's untimely demise
Message-ID: <8625659F.0052AF84.00@ramilwsmtp01.ra.rockwell.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Marshall,

You are correct. A serious error has occurred concerning the reporting of your death.

An FCC field engineer will be contacting your estate to reclaim your license certificate.

If it is any comfort to your loved ones, your call has been requested by an

8 year old technician class
license holder participating in the vanity call program.

Your friends at
Uncle Charlie

Date: Mon, 2 Feb 1998 09:15:40 -0600
From: Kevin Muenzler <wb5rue@stic.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>,
"kc5tja@animeonline.ml.org" <kc5tja@animeonline.ml.org>
Subject: [2725] RE: YYYYYAAAAAHHHH000000000!!!!
Message-ID: <01BD2FBB.2206C220@muenzlerk.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

On kc5tja@animeonline.ml.org, Sam[SMTP:kc5tja@animeonline.ml.org] wrote:
> Can someone *PLEASE* verify the existance of a radio station at 5.814MHz,
> Global Catholic Radio? PLEASE?! I think the call letters are ATKY or
> something like that....
>
> Dude, if someone can confirm this for me, I will have to change my
> underwear...this will be the very first 40m receiver I'd ever built! :D
> (Although it's still not stable enough for CW, it ROCKS for AM and SSB!)
>
> Many thanks for the confirmation!
>
> (Note: anything above about 6.5MHz, and the whole radio starts to get some
> MAJOR hum problems -- I don't know why, but it does. Any tips for
> eliminating this hum?)
>
> =====
> KC5TJA/6 | -| TEAM DOLPHIN |-
> QRP-L #1447 | Chief Architect and Project Founder
> | (web page under construction)
>

Try posting your question to rec.radio.shortwave

Kevin, WB5RUE

Date: Sun, 1 Feb 1998 21:58:03 -0800
From: dave_epps@juno.com
To: qrp-1@Lehigh.EDU
Subject: [2726] toroid measure
Message-ID: <19980201.215804.8646.0.dave_epps@juno.com>

I wound my first toroids today for the sst. I fully expected them to show on my new elenco l-c-r meter what the parts list showed that it should. example. L-2 is 18t #28 and should be 1.3 uh. It doesn't

r/c 3 (manufactured) reads what it should.
What am I doing wrong or what is the proper way to measure toroid inductance?
dave ab5pc fresno, ca

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 10:25:44 -0500
From: Gary Chevalier <gchevalier@isi.com>
To: SLOPEQRP@aol.com
Cc: qrp-1@Lehigh.EDU
Subject: [2727] Issues with Ten-Tec 1330
Message-ID: <3.0.32.19980202102542.0071b050@chief>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dave,

I have experienced the exact same problems with the 1330. At Ten-Tec's suggestion, I solved the chirp by placing a 100k resistor across the key input of the transmit mixer. (I'll have to get back to you on the exact pin outs, since I don't have my notes at work with me. Also Gary Green at Ten-Tec has been very helpfull.) I have also been going crazy trying to figure out why I can't get my MFJ tuner to load the 1330 to my G5RV or Cushcraft R7000. It works fine into a dummy load or an antenna with a near perfect match, but as soon as I go through the tuner, it's toast. It sounds as if the VFO starts oscillating garbage. The spectrum output looks nasty. I have called Ten-Tec and they think I have a component installed wrong

somewhere. At their suggestion, I took the windings off the tx coils in the LP filter section, but that didn't seem to help much. I have since rewound all my coils, including the VFO and re-tuned. I haven't tried the grounding solution yet. I'll try that this week sometime. Please keep me copied on anything you may find out.

Gary (W1GRY)
Merrimack, NH

>>om, tnx for reading this. i am new to pc's and e-mail. my call is n9zx1 and i

>>believe we have worked before. poss in some qrp contests.

>>i wonder if you can direct me to any published problems with the 1330 rig.
>>mine has a slight chirp on first keying up. the voltages are all correct. it
>>is qjuite sensitive to load up with my mfj 949 tuner. tentec had me take a
>>winding off the final filter coils and that helped a bit. and also grounded
>>the final x-sistor on the top of the board for the emitter. by moving the
>>final filter coils i can make the output jump up to 5 wts on my wm-2
meter. i

>>only run it at two watts anyway. some hams have said it has an unpure
note at

>>times. not quite an rst-9. they say it is quite a distinguishable signal in
>>the qrm and easy to copy. but it shouldn't be this way.

>>could you please supply any info on hearing of any other hams with this
>>problem. i have only heard of one guy i talked to in NC that has trouble
>>loading his with a tuner.

>>this is my first e-mail..

>>thanks dave larsen n9zx1/slope#1/qrp

Date: Mon, 2 Feb 1998 15:28:34 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: grudin@pacific.vdbs.com
Cc: qrp-1@Lehigh.EDU
Subject: [2728] Re: Toubleshooting in the rain (or what we did instead of going to Norcal)
Message-ID: <199802021528.PAA12223@chuck.dallas.sgi.com>

Jeff et.al.,

A good story and a lesson for anyone and everyone.

Something that I always, and I mean always do, is before I start any kit is to get the 8x Loupe (the kind used by photographers and some jewelers) to examine BOTH sides of the PC board. Also the same one I use to read the Laser generated labels on parts, especially SMT stuff.

As with your posting I don't want to put down any particular source, but I have found a number of single sided boards from one PC board place that had small whiskers of PC board material making a short that could have been buried under a part after it was soldered into place. The 10 or 15 minutes spent up front is well worth the time even though 90% or more of the time this does not result in finding of any problems. What is that old adage? "An ounce of prevention is worth a pound of cure."

And besides if you are following along with the schematic you can get some idea of where voltage sources and signal lines are in case you need to come back with a DVM or Scope.

Many know of the 'bed of nails' technique for automated checking of PC boards, especially needed for boards with more than 2 layers. But this is an additional cost that must be tacked onto the final cost of the kit or product and there are too many hams that don't want the additional cost of in the kit or for the board by itself. In the process of mass producing boards, even with excellent quality control, some problems will slip by and unfortunately we hear about them or we are the ones to get them. Over the past few years we have seen them on the QRP-L group. It's part of the process no matter how careful the guys and girls are that make them.

FYI

Chuck Adams K5FO Dallas, TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Mon, 2 Feb 1998 15:32:18 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: kc5tja@animeonline.ml.org
Cc: qrp-l@Lehigh.EDU
Subject: [2729] Re: High gain amplifier...
Message-ID: <199802021532.PAA12242@chuck.dallas.sgi.com>

Sam et.al.,

Will everyone on the list, please please, along with your call, if you have one, put your name and QTH. It is difficult for us to not see

your name anywhere within the posting and sometimes mail headers don't give us the information either.

It looks too much like an anonymous posting.

Not a complaint, but just a suggestion to make it easier on 3,000 people in the world.

dit dit

Also, try to keep signature files to just a few lines. It gets old seeing the same figures day in and day out. :-)

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Mon, 2 Feb 1998 09:34:46 -0600
From: wmcshan@REX.RE.ouhsc.edu (Mike McShan)
To: qrp-1@Lehigh.EDU
Subject: [2730] Re: "THE" Ultimate cheap QRP straight key
Message-ID: <v01540b00b0fb931f6e96@[157.142.56.167]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hearing strange almost beeping sounds he attempts to answer. His means of returning information as a result of connecting the wires and disconnecting the wires in precise patterns.. communication established and completed.

>

>(OK, I admitt, I may be loosing it)

>

>72

>Jeff, AC4HF

>Jeff M. Gold, Ed.S.

And while we're on the subject of keys that Jeff has designed, I built his slightly more high-tech key featured in this month's QST. It is an iambic paddle with the plastic spreaders from those little cheese and cracker packs mounted on an Altoids tin with a small block of wood for a center support and a few bits of hardware to hold it all together. I built it on a lark, but hey, it works nicely! So I add a K1EL PIC keyer inside the can to do it up right. It's maiden voyage was Friday night to work the FOX (W2MBY).

I did a couple of mods that differed from the QST version. First, I attached the plastic paddle arms to the wood block with a single nut and

bolt instead of wood screws. I originally did this sub because I didn't have any small screws, but I discovered that using a nut and bolt allowed me to make fine adjustments on the contacts spacings by adjusting the tightness. Also, I added a 1/8" stereo jack in parallel with the paddle to allow use of my vibroplex (or any external) paddle with the keyer if I wished.

Total cost (including K1EL keyer): less than \$20 (plus you get to eat the cheese and crackers to keep up your strength while you build the key!). Great idea, Jeff!

72,
Mike N5JKY
Edmond, OK

Date: Mon, 2 Feb 1998 08:43:42 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: dave_epps@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2731] Re: toroid measure
Message-ID: <Pine.BSI.3.96.980202083825.25043N-1000000@usr07.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 1 Feb 1998 dave_epps@juno.com wrote:

> I wound my first toroids today for the sst. I fully expected them to show
> on my new elenco l-c-r meter what the parts list showed that it should.
> example. L-2 is 18t #28 and should be 1.3 uh. It doesn't rfc 3
> (manufactured) reads what it should.
> What am I doing wrong or what is the proper way to measure toroid
> inductance?
> dave ab5pc fresno, ca
>

Dave,

I experience the same thing when winding toroids. There are a lot of variables that come into play, such as the tolerance of the permeability of the toroid, spacing of the wire, wire size, etc.

I just wound four toroids for a Class-F exciter for a customer, and had to take 1-2 turns off each toroid to get the inductance where I wanted it versus what the calculations told me. This is perfectly

normal.

The inductance factor (nH/N^2) is a EXACT value for the toroid, intended for a perfect world. Anyone seen one of those lately?

```

      /-----\
     /  What's all this  \
    / extinct stuff, anyhow? \
   /-----\
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      \  /  \  \  \
       \ "   \   \
        .      ( ) \
         '-| )__| :. \
          | | | | \  '
          c__; c__; '-...'.__

```

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Mon, 2 Feb 1998 07:44:46 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2732] Board shorts and the zen of motorcycle riding.
Message-ID: <Pine.SUN.3.90.980202073316.26873B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Interesting topic and one that needs some thought.

When I worked at a mfg plant, the "service" work was done on gear that has never worked! While that doesn't sound like much, it's a world of difference from working in a two way radio shop where all the radios used to work!!

New things come with wrong parts installed. Things in the wrong

places and of course the dreaded shorts!

Make yourself a small tool out of a piece of SS rod. I use old cut off pieces of antennas. Ask most any 2 way radio shop. They should be able to give you some. (You tune the antenna by cutting a little off the rod).

Grind this to a very fine point.

Then drag this between all traces on a new circuit board before you start soldering parts! It helps you feel those little whiskers between traces.

If you are the kind that can force yourself to take the time, it's a very good idea to use your ohm meter and at least check the power bus to ground for shorts.

With multi layer boards, a very last ditch method to get rid of a bridge between traces is to put your power supply across the two shorted traces. Start turning the ampage up until the whisker "fuses"!

This is good when it works. But there is the chance that one of the traces will blow first! However it has always worked for me. Have done it about 6 times.

I have a 5 gal can of ferric chloride. Does anyone know if storing it in an unheated area during winter will hurt it?

Thanks,

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 02 Feb 1998 20:38:22 -0500
From: Ed Tanton <n4xy@bellsouth.net>
To: wb5rue@stic.net
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [2733] RE: YYYYYAAAAAHHHH000000000!!!!

73

"Think you can, think you can't: either way you're right!" Henry Ford

Message-ID: <34D6155F.AF6E3AC@ipass.net>

Date: Mon, 02 Feb 1998 10:50:07 -0800
From: LYN WILLIAMS <designserv@ipass.net>
Reply-To: designserv@ipass.net
Organization: PRECISION DESIGN SERVICES, INC
X-Mozilla-Draft-Info: internal/draft; vcard=0; receipt=0; uuencode=0; html=0; linewidth=0
X-Mailer: Mozilla 4.02 [en]C-DIAL (Win95; U)
MIME-Version: 1.0
CC: SLOPEQRPP@aol.com
Subject: TEN TEC 1330 MTR QRP RIG CHIRP
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave,

I'm not familiar with the 1330, but if no one offers more concrete suggestions you should look for things which could cause an oscillator to change frequency with keying. Among these are:

- power supply voltage changing as load is applied.
- load on an oscillator changing as a following stage is keyed.
- component in oscillator changing value as it heats up.

Good luck.

Lyn, W4WDN

-----29613CC02FEDA201E02D8399--

Date: Mon, 02 Feb 1998 07:26:24 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-l@Lehigh.EDU
Subject: [2736] Re:Connect radio to soundcard
Message-ID: <34D5E5A0.BAB0930C@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Charlie and the group,

I have been using SbFFT on my PC's sound card for a couple weeks and it works very well. For those who may have missed my earlier post, there is a wonderful website that has all sorts of PC sound card software available for download and much of it can be very useful to we QRPers. The program, SbFFT, is a DSP routine that allows the user to define up

to six independent filters at a time, all of which have brick wall responses. I used it last saturday while listening to WSN-40 QRP net. I defined a 30 Hz wide notch filter to get rid of the "F" beacon and a second bandpass filter about 700 Hz wide to accommodate the normal spread of check-ins. Later I had to define a third filter (low pass) to get rid of a strong local station just up the band a bit. When I was finished, WSN-40 was all by itself in the headphones.

The URL to download the SbFFT software is
<http://www.muenster.de/~welp/sb.htm>

Charlie, I feed audio to the LINE input of my Sound Blaster 16 card directly from my Icom IC-728's "detector" output on the rear panel. This provides a fairly constant input level which is not affected by the a.f. gain control. The SB-16's AGC takes care of maintaining the proper input level.

You mentioned trying to feed audio from the headphone jack to the LINE input of your SB AWE 32 card. The headphone level may be insufficient to drive the sound card's LINE input. If your transceiver has an external speaker output, try that first. Otherwise I recommend you purchase an 8 ohm to 1000 ohm audio transformer (Radio Shack has them for 2-3 dollars). Connect the 8 ohm side to the headphone jack of your transceiver and the 1K side to the SB card. Make sure you have enabled and defined filters (what color are they?) and enable the "Input" (press the "I"). Let me know if you continue having trouble and I would also like to hear about any successes as well.

Date: Mon, 02 Feb 1998 10:53:47
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-1@Lehigh.EDU
Subject: [2737] Re: Toroidal Cores
Message-ID: <3.0.3.16.19980202105347.2c1f1722@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>On Sun, 1 Feb 1998, Michael Pratt wrote:
>> Can some one tell me if there is a trick to finding out how to identify
>> Toroid cores? Is there a color code or a cheat sheet to figure em out?
>> for example T-50-2 or 1? Also are toriods better that form type or air
>> type? Thanks

Yes, there is a color code for the powderd iron, FT type. The most common for HF work are the red (-2) and yellow (-6)

Ferrite cores aren't color coded and are black. They could be one of several mixes, with #43 pretty common, but #63 is used a lot also.

Yes, there is a cheat sheet, found in any ARRL Handbook and other qrp reference books.

The advantage of using a torriod core is you fit more inductance in a smaller space as opposed to air wound. Depending on the application, an air wound coil may be more desirable. One case would be an QRO antenna tuner where the core could get hot due to losses, and another is where stability is important, say for a VFO coil, since the core permability is affected to some extent by temperature.

Ferrite cores (T type) have a much higher AL (turns per uhy) than powdered iron (FT type). Ferrites are generally used for RF chokes and wide band transformers, while powdered iron are used for tuned circuits and low pass filters.

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

Date: Mon, 2 Feb 98 10:24:36 CST
From: minie@ed11a.msfc.nasa.gov (minie)
To: qrp-l@Lehigh.EDU
Subject: [2738] V Calls
Message-ID: <9802021624.AA01191@ed11a.msfc.nasa.gov>

It was 1951, I was one of the first novices, and my call was WN5VQB. 10 watts to a xtal oscillator. Those were the days..... Hal, W4YNG.

Date: Mon, 2 Feb 1998 09:27:54 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: BuckPD@corning.com (Buck Preston D)
Cc: qrp-l@Lehigh.EDU
Subject: [2739] Re: FYBO Question
Message-ID: <199802021627.JAA29221@usr05.primenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: 7bit

Howdy Preston,

(I'm cc'ing QRP-L on this....)

Preston (N0GLM) wrote:

>

> I haven't done any contesting so I don't know how to call CQ and let
> others know that I am participating in FYBO. For field day, I would use
> CQ FD. Is there anything similar or suggested for FYBO?

Good question! "CQ FYBO" works, but is kind of awkward to send, so you can also use the old standby "CQ QRP TEST". Either of those should do just fine.

Toward the end of the night, you could also try "CQ BRRRRRRR".... :-)

FIVE DAYS TO GO, FOLKS!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 02 Feb 1998 12:34:11 -0500
From: Nicholas Jeria <jerian@candw.lc>
To: Bcieslak@ra.rockwell.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2740] Re: Fox Log Form 1-20-98 AE9K WI
Message-ID: <34D60392.96954B9B@candw.lc>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Please note my new e-mail address j_jeria@yahoo.com

Bcieslak@ra.rockwell.com wrote:

> Sorry for the delay. Took friday off of work to recover from the hunt.

>
> An interesting evening. Worked some old friends from
> the w/k arc. Good to hear you Rick(AA9L) and Jerry(N9AW).
> WA9PWP was mobile and showed up at the front door only minutes after
> I worked him. His keen ears help pull out a lot of qso's. As a reward I
> let him have the key near the end. And what was with K0EVZ, No way was
> DOC in MN. He had the meter pinned here and Paul said he
> was louder than I was and paul was only a mile away at the time..
> We suspect he was in a parking lot down the road.
> IF thats new antenna I want the design info NOW! The band went
> completely dead at 02:00 except for a few digital droids. But came
> back with coast to coast Q's for the last 20 minutes.

>
> This log is the first draft so If I dropped a dit or dah somewhere let
> me know before I send it off to chuck who was playin poker instead of
> huntin
> foxes.

>
> Brian AE9K
> and Paul Wa9PWP riding shotgun.

> -----
> K5ID 559 AR KEN 652 01:00
> N9AW 589 WI JERRY 1271 01:01
> KU7Y 569 NV RON 17 01:02
> N6MM 579 CA HARVEY 318 01:05
> WA9PWP/M579 WI PAUL 127 01:07
> VE5RC 339 SK BRUCE 886 01:07
> K5JHP 559 TX BILL 825 01:09
> K2VCO 559 CA VIC 725 01:10
> K5ZTY 559 TX BILL 473 01:12
> W0CH 579 MO DAVE 618 01:13
> NQ7X 559 AZ FLOYD 343 01:15
> K5VUU 559 TX ED 1343 01:16
> W6ZH 579 CA PETE 257 01:19
> AB7ST 559 BOB UT 129 01:20
> K1MG 559 CA MIKE 614 01:22
> K0EVZ 599 MN DOC 861 01:22
> WORW 579 CO PAUL 2W 01:22
> K10J 559 TX OJ 732 01:26
> N5JI 569 TX DICK 1054 01:27
> N7XJW 559 AZ BERTIE 1259 01:28
> AB5UA 559 OK CLIFF 479 01:30
> AB7TT 559 AZ JOE 191 01:32
> W5HNS 559 TX HENRY 178 01:34
> W5FN 559 TX TIM 586 01:36
> KA5AT 559 TX LARRY 89 01:38
> AA9L 329 WI RICK 1355 01:39
> AB7Q 549 ID ANDY 102 01:40

> N5ALO 559 TX BILL 415 01:41
 > W5SB 559 TX BILL 1279 01:44
 > WD7Y 449 NV ED 1389 01:45
 > N7GS 559 MT MEL 715 01:47
 > KF6CTA 559 CA DICK 591 01:47
 > KI7MN 559 AZ BOB 271 01:49
 > N7IR 559 AZ GARY 1330 01:49
 > WE6W 559 CA ED 0168 01:50
 > K5ON 559 NM GARY 770 01:51
 > VE7CQK 559 BC PAUL 20 01:52
 > N7KT 559 AZ RON 62 01:58
 > VE5WF/6 559 AB EARL ? 02:00
 > KB7MBI 579 WA ALAN 5W 02:11
 > K06YA 559 CA ROB 176 02:14
 > KI6OY 559 CA LEE 72 02:16
 >
 >BAND DIES-BRIAN AND PAUL DRINK BEER WHILE
 > CALLING ENDLESS CQ'S FOR 30 MINUTES. THEN SUDDENLY...
 >
 > N1QQV 529 CT KEN 1009 02:42
 > K1CL 559 MA CHUCK 217 02:45
 > K6VNX 559 CA ARLEN 5W 02:46
 > KC1FB 349 CT JIM 29 02:55
 > N6WG 339 CA BOB 26 02:58
 > KF2PF/M 539 NY NICK 13 02:59
 > VE1MT 559 NS LAYTON 5W 03:00

 Date: Mon, 2 Feb 1998 08:45:28 -0800 (PST)
 From: Monte Stark <ku7y@sage.dri.edu>
 To: QRP-L <qrp-l@Lehigh.EDU>
 Subject: [2741] NA Sprint & FYBO collision!
 Message-ID: <Pine.SUN.3.90.980202083721.27074B-1000000@vortex>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

As you know, the NA Sprint will be run from 0000z to
 0359z 8 Feb 98. This is Sat, 7 Feb local time.

Joe has thought very hard about some way to allow points
 for NA Sprint contacts but there is just no way to do it.

If you can't duck the Sprint activity, make some QSOs and send them in!

It has also been suggested that those 4 hours would be a good time to spend in the N/T portion of the band.

For those who will be able to play in the Sprint, please let me know. I am trying to form at least two teams Nothing needed but the desire to play!

You don't even have to committ to the whole 4 hours. Just need to agree to send in your log for the Sprint. (QRP)

This will be the first year they have ever kept track of QRP entries and I'd love for them to get a bunch!

This is the contest where you can't just sit there calling CQ TEST all the time!

If you would like to help out for an hour or two, let me know withing the next couple of days. I need to send the list of team members into the NCJ before the contest starts!

Thanks and I'll cu in both FYB0 and NA Sprint!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Mon, 02 Feb 1998 11:52:39 -0500
From: joel malman <malman@world.std.com>
To: qrp-l@Lehigh.EDU
Subject: [2742] RI-DEpedition
Message-ID: <199802021652.AA07276@world.std.com>

Folks,

It turned out to be a bust. I did not hear anyone on the list and I guess no one heard me.

Hope you can catch RI during the FYB0.

/joel walqvm (malman@world.std.com)

Date: Mon, 02 Feb 1998 11:45:20 -0800
From: LYN WILLIAMS <designserv@ipass.net>
To: ve7ldh@direct.ca, qrp-1 <qrp-1@Lehigh.EDU>
Subject: [2743] economic reality
Message-ID: <34D62250.5F6BB490@ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Laura,

I think they have it good -- having to tolerate ads with their "free" service.

I pay for my service and I PAID for my browser -- which they now give away ; now I'm trying to figure out how to keep netscape's ads from busting into my screen at undesired times.

Date: Mon, 2 Feb 1998 10:02:18 -0800 (PST)
From: Sam <kc5tja@animeonline.ml.org>
To: Brad Mugleston <bmug@gwl.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2744] Re: radio design help
Message-ID: <Pine.LNX.3.96.980202095951.16810C-1000000@animeonline.ml.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Range - 1/4 mile max
>
> 9600 baud (but higher rates can be accommodated), and
>
> "packets" of no greater than 64 or 128 bytes per packet. Probably a couple
> of dozen
> "packets" or so, per hour.
>
> anyone have any ideas?

The 1750m band requires no license, has a limit of 1 watt ERP, and ranges from 160kHz to 190kHz. Using BPSK, you could achieve a bandwidth of approximately 19kHz at 9600bps, so you're not likely going to "hog" the

band, especially since it's damn near impossible to get 1 watt out of the antenna at 160kHz... :) Besides, BPSK has better S/N ratio than QPSK or QAM, since you have a wider bandwidth.

This is an FCC Part 15 band, so part 15 rules apply.

```
=====
      KC5TJA/6      |      -| TEAM DOLPHIN |-
      QRP-L #1447   |      Chief Architect and Project Founder
                   |      (web page under construction)
```

Date: Mon, 2 Feb 1998 17:03:18 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: ku7y@sage.dri.edu
Cc: qrp-l@Lehigh.EDU
Subject: [2745] Re: NA Sprint & FYBO collision!
Message-ID: <199802021703.RAA12873@chuck.dallas.sgi.com>

Ron is right. Get on.

I will be /6 in Mt View CA starting late Thursday night.

I will be willing to operate for food this weekend. :-)

Let me see if I can find a cardboard sign to hold up
beside Highway 101 while I'm out there. :-) ;-)

dit dit

Chuck Adams K5FO Dallas,TX CP-60
<http://reality.sgi.com/adams> adams@sgi.com

Date: Mon, 02 Feb 1998 09:23:03 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [2746] Parts Designators For NorCal Tuna Tin 2 Board
Message-ID: <3.0.1.32.19980202092303.00779a70@dpol.k12.ca.us>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

As promised, here are the parts designators for the new NorCal Tuna Tin 2 board that is available for \$5 plus \$1.50 shipping and handling from FAR Circuits, 18N640 Field Court, Dundee, IL, 60118.

C1 .01uF
C2 100 pF
C3 .01uF
C4 220pF
C5 .01uF
C6 270pF Silver Mica or Disc (100V)
C7 220pF Silver Mica or Disc (100V)
C8 .1uF
C9 22uF/25V Elect. radial or axial (mounted off board)
C10 .1uF

L1 22uH (Mouser 43HH225 or 7 turns #26 on FT37-43 Toroid)
L2 21T #26 on T37-6 Toroid (yellow)

Q1 2N2222A (Metal Case)
Q2 2N2222A (Metal Case)

R1 4.7K
R2 47K
R3 220 ohm
R4 100 ohm
R5 1K
R6 8.2K
R7 56 ohm

T1 14T Pri. 7T Sec. on FT37-43 Toroid

X1 40 meter crystal in HC49U style case.

All resistors are 1/4 watt, all capacitors on the board have .25" hole spacing.

You will also need stranded hook up wire, 1/8" or 1/4" key jack, 3 RCA Phono jacks, 1 SPDT Switch, 1 empty Tuna can.

72, Doug, KI6DS

Date: Mon, 2 Feb 1998 12:25:56 -0500 (EST)
From: Robert Parks <rob3ert@vegas.infi.net>
To: kd1jv@moose.ncia.net
Cc: qrp-l@Lehigh.EDU
Subject: [2747] Re: Toroidal Cores
Message-ID: <199802021725.MAA04109@fh102.infi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Steve (for Michael),

I'm sure it was a slip of the keyboard, but the powdered iron cores have the prefix "T" and the ferrite cores have the prefix "FT".

72/73

Bob Parks
K6AEC (Las Vegas)

>Yes, there is a color code for the powdered iron, FT type. The most common
>for HF work are the red (-2) and yellow (-6)
>
>Ferrite cores aren't color coded and are black. They could be one of
>several mixes, with #43 pretty common, but #63 is used a lot also.

>
>Ferrite cores (T type) have a much higher AL (turns per uhy) than powdered
>iron (FT type). Ferrites are generally used for RF chokes and wide band
>transformers, while powdered iron are used for tuned circuits and low pass
>filters.
>
>
>Steve, KD1JV....In the White Mountains of New Hampshire
>
>"Melt Solder"
>
>

Date: 02 Feb 1998 12:37:20 -0500
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
To: qrp-l;;
Subject: [2748] Re: toroid measure
Message-ID: <1998Feb02.123720-0500@[130.113.234.7]>

toroid-winding gang

Ed Tanton raises a good point...if you've got a meter that measures "L", you should know at what frequency it measures.

I wound a test toroid for Chuck once on a T-50-2 core. At 40 Mhz, it had NO inductance left...it was all eaten up by about 2 picofarads of stray (interwinding) capacitance. That stray capacitance means that at different frequencies, the inductance of the toroid will change. The toroid I wound would have been perfectly useable for a 7 Mhz. tuned circuit.

If toroid inductance is critical, I solder in a short-lead parallel capacitor that resonates the coil close to the frequency where it will be used. Then measure the resonant frequency with a grid-dip-meter. Then coil inductance is recalculated from $L = 1/(4\pi^2 F^2 C)$

-Glen VE3DNL

>///snip

>I wound my first toroids today for the sst. I fully expected them to show on
>my new elenco l-c-r meter what the parts list showed that it should.

>example. L-2 is 18t #28 and should be 1.3 uh. It doesn't

rfc 3

(manufactured) reads what it should.

>What am I doing wrong or what is the proper way to measure toroid
inductance?

>> dave ab5pc fresno, ca

Date: Sun, 1 Feb 1998 23:45:37 -0600

From: "Bruce Barley" <lbbarley@feist.com>

To: <ku7y@sage.dri.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [2749] Re: Board shorts and the zen of motorcycle riding.

Message-ID: <199802021746.LAA04872@wichita.fn.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: 7bit

Hello, Monte -

1.) Make sure your container can withstand possible freeze expansion of its contents without bursting a seam. I can't think of anything worse than 5 gal of ferric chloride all over the garage floor in the dead of winter. If my XYL were to find it - I would be dead. Pets, kids, carpets, shoe soles, etc.. YETCH !

2.) The freezing point of the ferric chloride solution will be depressed below 32 deg. F. depending on the concentration in solution. Your results

WILL vary. Kinda like anti-freeze, etc... but I'm not a chemist so I don't know how to tell you to calculate the depression in deg. F. Like I said.. depends on concentration in solution... yadda... yadda... yadda ...

3.) The amount of ferric chloride that can be held in solution depends on the temperature. At very low (~35 deg. F.) temps, you may find that there is a precipitate formed in the container. This is NOT a problem. Just warm up the 5 gals to a comfortable room temperature, and the precipitate will go back into solution.

4.) If this solution was purchased commercially, the mfg. probably can give you some insight on all of above.

Best dx in '98
Bruce Barley KB0PZD qrp-1 # 69
lbbarley@feist.com

> From: Monte Stark <ku7y@sage.dri.edu>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Board shorts and the zen of motorcycle riding.
> Date: Monday, February 02, 1998 9:44 AM
>
> Hi All,
>
>>
> -----snip -----
> >
> I have a 5 gal can of ferric chloride. Does anyone know if storing
> it in an unheated area during winter will hurt it?
>
> Thanks,
>
> cul,
>
> 73, Ron, SOWP 5545M,
>
>KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
>ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
>QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
>
>

Date: Mon, 2 Feb 1998 09:06:33 -0500
From: w4bws@juno.com (Donald E Sanders)

To: mgemm@mtechnologies.com
Cc: qrp-1@Lehigh.EDU
Subject: [2750] Re: Night fo the Living Dead QRP op
Message-ID: <19980202.122836.5318.0.w4bws@juno.com>

Marshall, hope to hear you on the top of 80 meters where it'scalled the
"landof the living dead".
Don w4bws

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 11:03:56 MST
From: "David F. Kurth" <dfk@col.hp.com>
To: QRP-L@Lehigh.EDU
Subject: [2751] Arizona Travel info (non QRP)
Message-ID: <199802021803.LAA26684@tc1e1120.col.hp.com>

I'm planning to drive from Colorado Springs to Mesa, AZ
on Wednesday. I would like to go from Holbrook to Payson,
and then into Mesa.

My question is, any of you Arizona folks know the conditions
of the roads around Payson. In previous years, there has
always been snow on the ground, but the roads were clear
and dry.

Any info or advise would be appreciated.

Thanks

72/73 Dave NOUVR
dfk@col.hp.com

Date: Mon, 02 Feb 1998 10:50:00 -0600
From: Ed Manuel <n5em@flash.net>
To: qrp-1@Lehigh.EDU
Subject: [2752] Toroidal Cores Color Code
Message-ID: <3.0.5.32.19980202105000.008582b0@pop.flash.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRPers and Toroid Winders,

Remember that the color codes described apply to Amidon cores (made by Micrometals, I think). There are other surplus cores out there that have colors, too. So be careful. If you can't be sure if you're looking at a Micrometals/Amidon core, then measure it . . .don't just assume that you know the specs by looking at the color.

This could save you a very frustrating experience.

Ed Manuel, N5EM
Houston, Texas (see, Chuck. I pay attention.)
n5em@amsat.org

Date: Mon, 2 Feb 1998 11:42:44 -0500
From: w4bws@juno.com (Donald E Sanders)
To: adams@chuck.dallas.sgi.com
Cc: qrp-1@Lehigh.EDU
Subject: [2753] Re: More Elmer statistics
Message-ID: <19980202.122836.5318.3.w4bws@juno.com>

Most have more than one kit and several boxes of partly accumulated parts for several other projects for which they are now looking for the article.
Don W4bws

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 12:26:14 -0500
From: Phil Rutledge <rut@mcrut.mv.com>
To: qrp-1@Lehigh.EDU
Subject: [2754] FT-77
Message-ID: <Version.32.19980202122253.01048dd0@pop.mv.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hello All,

I realize this isn't particularly QRP oriented, but I was interested in any comments (pro or con) anyone might have on the Yaesu FT-77. I realize its younger brother, the FT-7, is truly QRP, but I'm interested in something that can act as a backup QRO rig as well as possibly going down to QRP levels. I have a line on an FT-77 but don't want to make a move until I know a bit more about it.

Thanks in advance-- Phil (K1HS)

Date: Mon, 2 Feb 1998 11:16:28 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [2755] Re: Let's do FYBO! (NEWBIES TOO!)
Message-ID: <199802021816.LAA07809@usr02.primenet.com>

Howdy Folks,

Some great info from Paul (NA5N) which pretty much nailed the true nature of FYBO. FYBO is all about having fun with your friends, getting on the air and making new friends, having fun fun fun and more fun. :-)

Wanna know what REALLY warmed the hearts of us AZ ScQRPions? Getting logs from the BUBBA Sprint that said, "This was my first contest ever, had a great time!" Reading stuff like that makes my day!

FYBO is a very relaxed event. If you can only copy code at 5 wpm, we'll all match your speed! No worries, no stress, just swapping RF between friends. As Paul said, if you've never tried a contest before, settle up next to the fire and turn on the rig for an hour or so. See how many sub-freezing Field Ops you can work. Notice all the "TU/72/CUL DUDE/STAY WARM" comments you'll hear. Very friendly and low-key. All you need is a thermometer next to your rig. :)

'Course many of us are still going to try to break the 100+ Q's that N4BP and K10J bagged last year. ;-)

For you Novice/Tech+ Ops, some FYBO folks will be migrating to your subbands on 40/80m during the last 4 hours. Answer us at whatever speed you're comfy with! We'll pull you through.

Anyway, if you've been wondering what contesting is like, but have been too intimidated to try, FYBO's a great place to start. Sure hope to hear you out there!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 2 Feb 1998 11:21:53 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [2756] Re: NA Sprint & FYBO collision!
Message-ID: <199802021821.LAA08091@usr02.primenet.com>

Howdy Folks,

Yes, me again. :) As Ron (KU7Y) mentioned, the NA Sprint overlaps the last 4 hours of FYBO. Sorry 'bout that, scheduling snafu on my part. Won't happen again, I promise! in the meantime, there are two backup plans:

- 1) Join the NA Sprint! I'm told that QRP entries will have an asterisk next to them. Good time to show the world what QRP can do. Hopefully a few crack QRP teams will form up, go forth and conquer. :)
- 2) For those sticking with FYBO (I'll be shivering all 12 hours ;-)), *IF* the QRM from the NA Sprint is overwhelming, the plan is to move to the Novice portions of 40/80m (about 10 KHz up, QSY as necessary). BC QRM should be nothing compared to the average Fox Hunt. ;-)

As an added bonus, maybe some of our N/T+ QRP-L critters will find us all there and fill their FYBO logs too.

Mix and match the above two plans as you like. No worries either way. As long as your putting a QRP sig in the air, life is good. :-)

Good luck to all! Stay warm, be safe, and HAVE FUN!

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 02 Feb 1998 13:26:08 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: lbbarley@feist.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2757] Re: Board shorts and the zen of motorcycle riding.
Message-ID: <34D60FC0.2740@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> > I have a 5 gal can of ferric chloride. Does anyone know if storing
> > it in an unheated area during winter will hurt it?
> >
> > Thanks,
> >

For what it's worth

Last time I looked Ferric Chloride was a solid. What you have is a dilute aqueous solution (ie mostly water with some other junk mixed in...in this case the junk happens to a salt--ferric chloride). As pointed out by others, your solution properties will vary depending upon how dilute the solution is. Since the solution is dilute, your properties will probably not differ all that much from water. Give your supplier a call and ask for a copy of the manufacturer's MSDS (Material Safety Data Sheet). It will probably have the concentration and (maybe) freezing point of the solution. You may have to calculate concentration

from Specific Gravity.

Some salts increase in solubility with temperature while others decrease in solubility. Just heating up a solution does not guaranty that you can dissolve more of a solute.

Not sure how ferric chloride runs.

Probably more than you wanted to know.

Henry

Date: Mon, 02 Feb 1998 13:17:40 EST
From: wd4nak@juno.com (CHARLES E HUX)
To: w4bws@juno.com
Cc: qrp-1@Lehigh.EDU
Subject: [2758] Re: Night fo the Living Dead QRP op
Message-ID: <19980202.131603.7175.0.wd4nak@juno.com>

If marshal is dead who got my \$2.00 ??????????????

Charles

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 2 Feb 1998 12:37:31 -0600
From: "Walter Dufrain Jr." <walter@inlink.com>
To: <vole@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [2759] Re: NA Sprint & FYBO collision!
Message-ID: <199802021839.MAA13537@thor.inlink.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi All, one thing nice about the 2 contest, there is something for QRP to make a showing this weekend.

I just love to work those kw stations with a couple of watts.

Walter AG5P Wright City, Missouri

Date: Mon, 02 Feb 1998 13:47:21 -0500
From: ckrelic@usaor.net
To: qrp-1@Lehigh.EDU
Subject: [2760] FS: TenTec Parts
Message-ID: <34D614B9.A9AAFF87@usaor.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For the Century/21 owners out there_____

I have for sale a set of new finals and and
I believe drivers, plus the PTO rebuild kit
for \$28 shipped 48

72_Curt/K3ivb

Date: Mon, 02 Feb 1998 18:48:46 +0000
From: Ed Loranger <we6w@qsl.net>
To: grudin@pacific.vdbs.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2761] Re: Troubleshooting in the rain (or what we did instead of going to Norcal)
Message-ID: <34D6150E.E59@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Great post Jeff.

I won't repeat what Chuck said. All True. Early in my career here at this major Electronics co, I was an assembler.

Even the highest quality boards can have a bad run.

I find that good boards will have very crisp traces and appear smooth and shiny.

Bad batch boards will appear Grainy, with voids in the traces
and possibly have unetched areas or partial etched areas.

YES, Check fully before soldering.

-Ed

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 2 Feb 1998 13:56:29 -0500
From: Mel Evans <MelEvansGM6JAG@compuserve.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [2762] Re : Marshall's reported demise
Message-ID: <199802021356_MC2-3193-8433@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Won't some guys do anything to get out of paying taxes!

(If you're not with us, you can't pay the tax)

Go for it Marshall, get confirmation you've gone, and then ignore the tax=
demands. Get the bills made out to the wife and run like @#*!

72 and 73 de Mel
GM6JAG
Edinburgh Scotland UK
Home of the last HW9

Date: Mon, 2 Feb 1998 13:56:34 -0500
From: Mel Evans <MelEvansGM6JAG@compuserve.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [2763] Elmer project
Message-ID: <199802021356_MC2-3193-8437@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hi gang,

Would it be possible/sensible to agree on a name for all posts to do with= this project so as to make it easy for those who want to get post can, and those who don't to delete?

Say "SW40 Project/ subject as a heading" or something?

Just my 2 pence worth of thinking out loud

72 and 73 de Mel
GM6JAG
Edinburgh Scotland UK
Home of the last HW9

Date: Mon, 2 Feb 1998 13:56:37 -0500
From: Mel Evans <MelEvansGM6JAG@compuserve.com>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [2764] Elmer statistics
Message-ID: <199802021356_MC2-3193-8438@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1
Content-Disposition: inline

Hi gang,

I'm willing to predict that not only is there an unbuilt kit in most if not all of the list', back closet, but there's probably two more awaiting that one part you know you can get from the radio flea-market for 50 cents (pence) instead of the \$4.50 you'll have to pay at regular electronics/radio emporium prices!

Trouble is, the guy who had them at the flea-market has never ever showed up again at any of the local fests

72 and 73 de Mel

Edinburgh Scotland UK
Home of the last HW9

Date: Mon, 2 Feb 1998 13:03:33 -0600
From: Tellefsen Bob-CNSE97 <cnse97@lmpsil02.comm.mot.com>
To: QRP-L list <QRP-L@Lehigh.EDU>
Subject: [2765] Sunday morning
Message-ID: <351A2DFAE256D111883A0060B06B166222BFBB@s-il02-j.comm.mot.com>
MIME-Version: 1.0
Content-Type: text/plain

Sunday morning I started out to the Livermore swap meet and then NorCal meeting, but it was raining like stink. Figured out this would be a non-starter for the swap meet, so turned around and went home.

Well, let's see, I'm up early. Too late to go back to bed. Let's try 40m and see what's on.

Bingo, good idea. Worked two stations in Hong Kong and one in China on 5 watts.

Really made Ol' Kenwood's day.

Later on, rain let up so went off to NorCal meeting and had a ball. Showed my paddles with the Bass Guitar picks for fingerpieces. Seemed well received. Certainly work well for me. Really great time with a great mob of people. Jerry Parker was taking digital pics for the NorCal page. (Every one is waiting to see them, Jerry :-))

72, Bob N6WG

Date: Mon, 2 Feb 1998 01:05:23 -0600
From: "Bruce Barley" <lbbbarley@feist.com>
To: <qrp-l@Lehigh.EDU>
Subject: [2766] Ferric Chloride aquatious solution MSDS data sheet
Message-ID: <199802021905.NAA10215@wichita.fn.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

With the discussions about the storage and safety of Ferric Chloride (FeCl3) in water, I have obtained the Material Safety and Data Sheet (MSDS) and have posted it to my web site.

Rather than make it an attachment to this e-mail (a real NoNo), you should be able to browse (and print your own copy) from
<http://www.feist.com/~lbbarley/qrp/fec13.txt>

If a lot of you have problems getting to the page, I'll try to do something else. Everyone should have ready access though. I think this sheet would be a good candidate for permanet posting to the qrp-1 data at lehigh.edu
Chuck? Anyone?

And, yes... the MSDS data sheet says that a Ferric Chlorde solution can be quite nasty to deal with!

Bruce Barley qrp-1 # 69
lbbarley@feist.com

Date: Mon, 02 Feb 1998 12:08:42 +0000
From: Roger Hightower <n7kt@earthlink.net>
To: dfk@col.hp.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2767] Re: Arizona Travel info (non QRP)
Message-ID: <34D5B74A.D04B46DB@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

David,

No snow now, but a storm is due in on Wednesday that should drop some. You might consider coming South from I-40 to ShowLow, then down U.S. 60 to Phoenix. The road construction between Payson and Phoenix might cause some delays.

72 es GL...Roger

--

72/73, de Roger, N7KT

Date: Mon, 2 Feb 1998 12:18:08 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Joe Gervais <vole@primenet.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2768] Re: NA Sprint & FYBO collision!

Message-ID: <Pine.SOL.3.91.980202120015.12221A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 2 Feb 1998, Joe Gervais wrote:

> *IF* the QRM from the NA Sprint is overwhelming, the plan is to
> move to the Novice portions of 40/80m (about 10 KHz up, QSY as
> necessary).
>
> As an added bonus, maybe some of our N/T+ QRP-L
> critters will find us all there and fill their FYBO logs too.

Myself (NA5N) and Tim K5OI will be operating from somewhere behind the Timber Lodge in Pine Top, AZ, and I *do* plan on hitting the 40M novice band mid to late afternoon. And since Joe AB7TT, FYBO-meister, is staying in the room next to mine, I'm sure he'll remind all of us there to hit the novice bands (not to mention keeping all of us honest!).

I'm taking my NorCal paddles, my vintage Mac Key (1930's mechanical bug) and a US Navy J-38 straight key that my father used as a radioman on Guam in WW-II. I'll use this classic straight key on the novice bands at 5wpm or whatever for the N/T's. So if you're a Novice/Tech+ that wants a QSO ... start snooping around 7110 or so mid-afternoon Mountain time. And since many guys may hit the novice band just to see if there is any activity (and leave if not) ... I suggest you call "CQ QRP" or "CQ TEST". As soon as someone shows up and hears that, they'll jump on you in a heartbeat! Call CQ at your comfortable CW speed, and if the guy coming back is a bit too fast, don't *ever* be embarrassed to say "PSE QRS" (slow down). Or "QRM PSE QRS." Heck, might as well lie like we do!!!

Who knows ... once the NA Sprint starts, the novice band may be crowded with QRPers.

GL, Paul NA5N

Date: Mon, 02 Feb 1998 13:25:43 -0600
From: Ed Manuel <n5em@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [2769] Elmer Project: Name
Message-ID: <3.0.5.32.19980202132543.008683c0@pop.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 01:56 PM 2/2/98 -0500, Mel Evans wrote:

>Hi gang,

>

>Would it be possible/sensible to agree on a name for all posts to do with
>this project so as to make it easy for those who want to get post can, and
>those who don't to delete?

>

>Say "SW40 Project/ subject as a heading" or something?

Second that motion. If you have never learned how to make a filter to pre-file your email into folders, you are missing a great tool. You may actually LIKE getting lots of email messages if they are all neatly filed into folders like, QRP-L, 2N2222, Dayton, and a host of other specialized ones I have. Works great and you immediately know what's what.

To help this suggestion along, how about

SW40: subject

That way, SW40: is an easy filter to make.

Now, if we could only get everyone to use "FOX: subject". Wouldn't life be great :-)

And, if your email program doesn't do filters try Eudora Lite, version 3.0. Free and it works great. Does take a while to download.

Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Ed Manuel, N5EM
Houston, Texas
n5em@amsat.org
n5em@flash.net

Date: Mon, 2 Feb 1998 14:37:09 -0500
From: Bill Howell <bhowell@mail.utexas.edu>
To: lobar@doitnow.com
Cc: qrp-l@Lehigh.EDU

Subject: [2770] Re: AT11 RFI experiment
Message-ID: <199802021937.0AA376678@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Jim, As I understand it, the sleep mode is available
in AT-11 Ver 1.8 and later.
You may want to check your Ver#. I think it's on the PC
board (not sure).

Perhaps an upgrade of some sort is available if you're
below 1.8.

72,

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance
N5ALO QRP-L #415

Date: Mon, 02 Feb 1998 14:37:07 -0500
From: olyellr@iglou.com
To: designserv@ipass.net, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [2771] Re: economic reality
Message-ID: <3.0.5.32.19980202143707.007a6b80@iglou.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:45 AM 2/2/98 -0800, LYN WILLIAMS wrote:

>Laura,
> I think they have it good -- having to tolerate ads
>with their "free" service.
> I pay for my service and I PAID for my browser --
>which they now give away ; now I'm trying to figure
>out how to keep netscape's ads from busting into my
>screen at undesired times.
>

So.....where does QRP fit into all this?

Keep smiling.
Mike L.

KE4HLU
FISTS #4139
QRP-L #1395

Date: Mon, 02 Feb 1998 11:42:32 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [2772] NorCal Feb. 1st Meeting Report
Message-ID: <3.0.1.32.19980202114232.0077ab44@dpol.k12.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The NorCal February meeting was held at the California Burger and the manager and I were talking about how long we had been meeting there. Yesterday's was the 56th NorCal meeting, with 55 of them being held at the California Burger. Quite a string. Now the details.

I arrived at 9:30 and the rain was pouring down. I skipped the swap meet and drove directly to the California Burger. The manager opened the doors early and let us in out of the rain (he is a swell guy, but it also helps that we bring in 60 to 70 customers to eat at his restaurant). I brought the two models of the Tuna Tin 2 that I had built from boards done for me by Gary Diana and Dave Adams. I mounted one board with L brackets and the other with Standoffs, and I much prefer the standoff method. The rigs were layed out on the table with the Pixie Deluxe that was designed by Debra Blanke and the Tixie that was designed by Charles Ludinsky and the board made by Embedded Research. That was my contribution to the day.

As I was laying out the gear, I saw a guy standing there and he looked vaguely familiar, I knew that I had seen him before. I asked him his name, and welcomed him to the meeting, but I just couldn't place him. Then he showed me a breadboard that he had designed for the Altoids tins and it came to me, it was Rex Harper, N1SYZ from Windham, Maine. He was in the area on business and naturally came out early to save the company money on airfare!! I met Rex last year at Dayton, he was the one who designed the protoboards that fit in the Altoids cases. Rex had several neat projects to share including a digital VSWR meter with an absorptive bridge taken from the Rainbow Tuner Circuit, an Morse code ARRL type VEC code test

generator using a Stamp 2, but the biggie, the one that got all the attention was the Zippy, a Pixie that was built into a Zippo lighter case, complete with a tiny switch that was used as a key, and an interface for all of the connections. What a spy radio!!

Dale Welch, N6DW was there with his beautiful NorCal 40A built from the club kit. He used a fender washer to do the dial, an idea that he picked up from Fred Turpin, K6MDJ. Dale is the one who gave the original copy of Joy of QRP to Jim Cates who in turn gave it to me!!

Bob Tellefsen had his modified NorCal paddles. He used guitar picks as handles to give narrower spacing. Nice feel and nice job.

James Bennett brought his NorCal K8FF paddles, and the handles were beautiful. They look just like frosted glass. He used #400 sandpaper to give it the frosted look. A very nice touch, and it also gave it a unique tactile feel. Good job James.

And another set of paddles was there done by Dwight. He made a wooden case to set it on out of Oak. Really a beautiful job. The ingenuity of QRPers never ceases to amaze me.

Sam Imai, KF6ML made the long drive up from LA. He told me that he and Jerry Parker will be going to Dayton this year, so you want to make sure and meet these two guys when you are there. Sam brought his version of the Transistor tester that was in the Winter issue of QRPP in Paul Harden's Hints and Kinks, plus he built the dummy load and RF probe that was in the Fall issue, by Frank Brumbaugh, W4LJD. Sam also had a Pixie Deluxe with a battery pack mounted in a large Altoid's tin (the Giant one). And finally, he had a set of home brew paddles with a TiCK keyer that was loud. When I asked him how he did that he said that he put an LM386 in there. Sam is a wonder.

Mike Gipe was also there, and brought with him his Dec. 97 keyboard from QST. I sat down and started typing. I type at about 60 WPM, and I was able to fill up the buffer. The neat thing is that the keyboard has an amber LED that flashes the code. Guys were trying to copy the code by light, but were not too successful. It is much easier to do by ear.

Doug Hauff, from San Luis Machine brought the prototype for the Rainbow Tuner Boxes. He doesn't have pricing details but will announce them soon on the net. The boxes are great and I just have to have one. He also delivered 500 more paddle bases, and will ship the brass parts to me late this week. I will then have a way to occupy my free time for a few days. He also brought 6 powder coated bases and they sold instantly. He had bright red, black and hammertone blue.

Wayne Burdick and Eric Swartz were there and Eric brought one of the

prototype test boards for the PA of the K2. It was interesting to see the way that they are testing the circuits for the K-2. They did tell me that both of them will be at Dayton and Elecraft and Wilderness Radio will have booths, hopefully side by side. Bob Dyer of Wilderness Radio was there and had the new run of SST's and also a new supply of the Wilderness Radio portable log book.

There were about 70 QRPers there in attendance, all had a good time in spite of the rain, and the energy was very high. It was one of our better meetings. Remember, we meet on the first Sunday of every month at the California Burger. If you are in the Bay Area, stop by and join us. 72, Doug, KI6DS

Date: Mon, 2 Feb 1998 19:37:23 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [2773] FECL information
Message-ID: <199802021937.TAA13624@chuck.dallas.sgi.com>

I have placed the information at the ftp site

ftp.lehigh.edu in directory /pub/listserv/qrp-l/misc/fecl.txt

for those that can't surf, but can ftp.

And for those remaining souls that can't do either but want the information, then send email to

LISTSERV@LEHIGH.EDU

and in the BODY of the message put

GET QRP-L/MISC FECL.TXT

Of course the all caps is to keep you from typing in a numeral one in critical places. :-) I'm not prone to shouting. ;-)

FYI as usual

FILM at 11 (two one's there :-)

Chuck Adams K5FO Dallas,TX CP-60
http://reality.sgi.com/adams adams@sgi.com

Date: Mon, 02 Feb 1998 13:38:40 -0600
From: Rohn <rohn@pubrats.com>
To: qrp-1@Lehigh.EDU
Subject: [2774] Ham demonstration in Seattle?
Message-ID: <199802022047.0AA02005@tavern.pubrats.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

I have a friend in Seattle (works in Redmond, can you guess for who <g>) that is starting to become VERY interested in Ham Radio... seven emails of questions from him JUST THIS AFTERNOON! :) I'd love to help keep his excitement up, but since I'm in Minneapolis the distance is just too great, especially for a demonstration - a sure fire way to hook him for good!

I was wondering if there was anyone in the Seattle area who could take a little time (just part of an afternoon perhaps) and show him what it's really all about. He doesn't have a lot of money to spend, so QRP and building his own rig would definitely be a way to go for now (he's actually quite excited about homebrewing) but I'm worried that his misconception of CW is enough to turn him away - well, without the proper introduction to it anyway.

This doesn't have to be a long term commitment of Elmering by any means... just enough to let him see what's it's like. That'd most certainly be enough to grab him!!!

If anyone is willing to spend an hour or two to talk radio and show off your stuff and you're in the Seattle area, please send me a private email and I'll put you in touch with him.

THANKS!!! and 72's!
Rohn (NØRTX)

Date: Mon, 2 Feb 1998 12:49:08 -0700
From: ji3m@maxwell.com (James R. Duffey)

To: qrp-1@Lehigh.EDU
Subject: [2775] Novice Nostalgia
Message-ID: <v02130501b0fbca83c4bf@[192.31.66.158]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

With all the walks down novice memory lane I have finally succumbed and will post my novice story.

I was licensed in June of 1965, almost 15 years old, as WNOMWN. I took the novice class that was given by the Brookings (SD) Radio Research Club (WOBXO). The theory was taught by Dick Smith, whose call I have forgotten, and the code portion by Ed Gray, then WA0CPX, now W0SD. I knew the code from Boy Scouts, so that was easy, and I was (and remain) technically inclined so the theory was straight forward. My mother took the course with me and received WNOMWM, although she never got on the air. She had helped me learn the code for Boy Scouts though, having learned it herself as a Girl Scout.

I had a Hallicrafters HT-40 transmitter and a Hammarlund HQ-110A receiver to a HyGain 14AVQ vertical with lots of quarter wave radials about 4 feet off the ground. I had an 80M dipole for that band. Like every other novice of the era I bought a 7175 crystal figuring I would split the difference of the band edges which ran from 7150 to 7200 in those days. There was a foreign broadcast station (Radio Moscow?) on that frequency and when it was off there were lots of novice QRM. I later picked up 7192 and 7155 crystals which were much better band spots. I also had a 3720 for 80M, and a 7050 for 15M (x3 is 21150). The nice thing about using crystals, it taught you to tune for replies, something I still do. It pays off more often than you would think.

15M was my favorite band. It was about the same spot in the sunspot cycle then as it is now. I went home from school for lunch and almost always worked 15M. 40M usually had too much QRN during the day and too much QRM during the evening. My mom served me lunch at the rig as I worked. The skip was always long and I mostly worked 2s, NY and NJ, 4s, FL, and 6s, CA. Occasionally a Brazil station would work his way up to the novice band to give some DX to us youngsters.

My dad got his license shortly thereafter, WN00ML, now WA00ML, and upgraded the transmitter to a Ranger II and replaced my manual TR switch with a Johnson electronic TR switch. He also bought some more crystals and had enough that he could always get a clear frequency. We still talk weekly on 20M or 40M.

I also worked 80 M in the evenings and got a pink slip from the FCC in Grand Island NE for broadcasting a harmonic at 7440. I still remember coming home from school and having my mom wave an official looking envelope

in my face and say "You better open this-it looks important. What kind of trouble are you in now?" To this day the name of Grand Island sends a shudder down my spine. In those days you had to respond and tell the FCC how you were remedying the problem. The guys at the club told me how to respond to this, that is to say I was tuning up on a harmonic, and would out pencil marks on the rig controls to indicate when I was on the fundamental so that I could only tune on a fundamental from then on. I got one of the local hams to listen and verify that I was not tuned up on the harmonic. I put htat in the reply too. It worked and I never heard from them again. My father bought me a beautiful Millen Transmatch, which I still have, as he had heard it would help suppress harmonics.

It is funny how habits learned young stay with us. I still like to work the highest band open, I tune for replies, I avoid 40M except for special events, and I have an unexplainable fondness for verticals, even though I don't have any at the moment.

I didn't realize so many of us were licensed in the 60s. I went off to graduate school and became inactive, later acquiring N7ATB and the present call, but I wish I had done more building when I was young. Most of my projects were antennas.

Back to topic. - Duffey KK6MC/5

James R. Duffey (505) 764-3143
Principal Scientist (505) 843-7995 (FAX)
Maxwell Technologies Inc/Albuquerque Division
Suite 300
2501 Yale Blvd SE
Albuquerque, NM 87106

Date: Mon, 02 Feb 1998 11:55:48 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-1@Lehigh.EDU
Subject: [2776] FYBO Plans ARRRGGGH
Message-ID: <3.0.1.32.19980202115548.00d1c148@dpol.k12.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My plans for a neat weekend have fallen through. The Arizona Scorpions and the NM QRPers are meeting in Pinetop, Az to do the FYBO contest Saturday. My plan was to leave her on Friday evening and fly to Albuquerque, rent a car, and then drive to Pinetop and get there late Friday night, and show up

with a sleeping bag, a radio, and an antenna and say, "Hey I got lost and made a wrong turn, is this the place for the radio deal??" It would have been fun to see the looks on their faces. I met the AZ group at Flagstaff and the NM group at Riley, and they have one thing for sure in common, they believe in having FUN, FUN, FUN. I love to see these guys, they are always laughing and cutting up. But it won't happen. We have had a basketball game rescheduled for Friday night, and even though it is home game it doesn't get over until about 9:30. That means the earliest that I can make it to the airport is 11:30 or so and I just can't make the connections to get to Pinetop on time. So, this one is canceled. But, hey, I can work the contest from home, and that is what I am going to do. I think I will use the trusty NorCal 40 and see how I do. I will be on 40 Meters with a wire antenna up about 35 feet, using a Skelton Cone. The paddles will be NorCal K8FF, the keyer homebrew TiCK, in fact the whole station is homebrew QRP. But the temp will be 72 degrees.

I encourage the rest of you no matter where you are to get in this contest and support the AZ SQRPs in their contest. My heart is with you guys at Pinetop, but my warm butt is in Dos Palos. 72, KI6DS

Date: Mon, 2 Feb 1998 13:53:05 -0600
From: wmcshan@REX.RE.ouhsc.edu (Mike McShan)
To: qrp-l@Lehigh.EDU
Subject: [2777] Re: Ferric Chloride aqueous solution MSDS data sheet
Message-ID: <v01540b04b0fbd34a85b6@[157.142.56.167]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>
>Rather than make it an attachment to this e-mail (a real NoNo), you should
>be able to browse (and print your own copy) from
><http://www.feist.com/~lbbarley/qrp/fec13.txt>
>

A very large database of MSDS is maintained at

The Vermont SIRI MSDS collection
<http://hazard.com/msds/index.html>

Searchable by both manufacturer and substance. A large listing of other hazard resources may be found on the OU Health Science server at:

<http://w3.uokhsc.edu/ehso/local/msds1.htm>

FYI

Mike N5JKY
Edmond, OK

Date: Mon, 2 Feb 1998 12:59:43 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-1@Lehigh.EDU
Subject: [2778] Neat FYBO Tales on the Web
Message-ID: <199802021959.MAA24675@usr08.primenet.com>

Howdy Folks,

Hope I'm not getting too annoying. Just remembered
there are some great FYBO '97 writeups out there. Go
check out Steve (N0TU)'s very sharp site at:

<<http://www.webaccess.net/~S&P/>>

Could darn near make a series of articles from all the
content there! :) (Psssst! Hey Ron! ;-))

Anyway, I'm sure there are others too. Great places to
get some inspiration!

OK, I'll go away now. Really. :)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 02 Feb 1998 20:06:10 +0000
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2779] Bazooka Ant. Optimised!(we6w)
Message-ID: <34D62732.3D98@qsl.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang, I really don't have the time today, but just couldn't contain myself.

My Bazooka antenna is now a Folded Bazooka, fed with 300 Ohm TV line to the Balanced output of my ant. tuner.

Boy am I getting out! And actually copying QRP stations as never before. I have been getting sig reports 2 units higher than I have sent -- and to stations I couldn't have even heard before!

Most of you recall I had a 40 meter dipole, improperly fed with 300 ohm TV line to minimize losses for multiband operation.

I built the standard bazooka ant. and fed in exactly the same manner so the test comparison would be valid.

The results were that the Bazooka ant. was slightly better than my dipole, and probably due to the larger conductor provided by driving the shield of the 100% dual braid high quality coax I used.

Well, Saturday morning after the WSN-40 net, I went for the gold -- Add the extra wire for a Folded Bazooka and present a 300 ohm match to my feedline.

WOW! As I said earlier. This puppy is hot. I knew there was a little loss due to the 75 Ohm to 300 ohm mismatch at the ant. terminals, but having eliminated that mismatch, everything is being delivered to the antenna. Feedline radiation is at an all-time minimum.

We be in business, folks! I've had my Drake TR-3 ALC at about 40 dB compression just to keep my ears from ringing.

As an added bonus, I appear (Deductively) to be able to use the Folded Bazooka on 80 meters. Last night my 5 watts was copied S9 from my Santa Rosa, CA QTH in Northern California to Los Angeles in the south.

I won't be contesting in 80 meters, just a check if the added element would act as a 1/4 wave element driven from the ends, or at least inductively coupled to the primary bazooka feed. Appears to be about 60 percent efficient on 80 meters with the 40 meter folded Bazooka.

Well, my previous dipole was unusable on 80 meters, so this is definately an improvement.

Tests on 20 meters --- Forget it.

I just had to share this. At the very least, make yourself a nice folded dipole with 300 Ohm feed and do some of your own experiments with a non-bazooka style folded dipole.

Gleefully Submitted,
Ed Loranger, we6w

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 02 Feb 1998 14:08:20 -0600
From: Tim Ahrens <tahrens@inetport.com>
To: minie@ed11a.msfc.nasa.gov
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [2780] Re: V Calls
Message-ID: <34D627B4.B84F1524@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hey Hal - It was 1967, and I was WN5VQK!! Globe Scout & Hallicrafters S-120. Took 16 years for the calls to come around, eh?!

cu

Tim W5FN (ex wa5vqk)

minie wrote:

>
> It was 1951, I was one of the first novices, and
> my call was WN5VQB. 10 watts to a xtal oscillator.
> Those were the days..... Hal, W4YNG.

Date: Mon, 2 Feb 1998 15:20:07 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "Qrp-L (E-mail)" <qrp-l@Lehigh.EDU>

Subject: [2781] SPRAT Reprints Vol 1 - Vol 5 (1979 - 1997)
Message-ID: <21E06269B00ED111BE9B00805F6D0FA31562A6@MAILSERVER1>
MIME-Version: 1.0
Content-Type: text/plain

Just received my reprints of SPRAT from Kanga US. Five volumes in 3-ring binders. Now all I need is to be snowed in for a few weeks. That's wishful thinking in Atlanta. HiHi. I've never had this much "new" old QRP related material to read at one time.

For those who want a peek without buying, look at G-QRP web page at:
<http://ourworld.compuserve.com/homepages/g4wif/gqrp.htm>

Sam Billingsley,AE4GX
Atlanta, GA 30342

Inverted "L" long wire with LDG AT-11 tuner (mine tunes with 2 watts) and 1/4w radials, Butternut Vert, AEA IsoLoop
JPS ANC-4 noise canceller (Works great. My local QRN was S5/S7 at times, now barely heard)

Ramsey 1w 40 mtr xmtr/rcvr, Index Labs QRP+, HW7, HW8, HW9

Norcal 38s/5w/Tick (just received my PIXIE 2 kit)

NORCAL 2210, MI-QRP 1567, QRP-L 1033, ARCI 9356, G-QRP 9660, ARS 269, NOGA, CQC 454, AK/QRP 308

Date: Mon, 02 Feb 1998 12:37:44 -0800
From: Charlie Panek <charlier@lsid.hp.com>
To: qrp-l@Lehigh.EDU, msebrakr@telepath.com
Subject: [2782] Re: pixie II (schematic)
Message-ID: <34D62E98.4F5F@lsid.hp.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Roger Braker (msebrakr@telepath.com) (or Arnold?)wrote:

>
> Hi All,
> I have been hearing all the talk about Pixies abd want to build my own now.
> Can anyone direct me to a web site that would have a skiz on it? Maybe

> someone can send me an attached file of the skiz?? Thanks.
>
> 73,
> Arnold kd5kch
>

Why, look in the QRP-L archives, of course:

<ftp://ftp.lehigh.edu/pub/listserv/qrp-l/rigs/index.html>

Two different versions of the Pixie are there. Schematics and text.

72,
Charlie
KX7L

--

Charlie Panek	Hewlett Packard Company
mailto:charlier@lsid.hp.com	Lake Stevens Division
	Everett, Washington

Date: Mon, 2 Feb 1998 12:20:51 -0800
From: dave_epps@juno.com
To: qrp-l@Lehigh.EDU
Subject: [2783] sst
Message-ID: <19980202.122051.6774.3.dave_epps@juno.com>

IT WORKS. Receiving anyway. Don't have a means to check the output yet other than I can hear it in another rcvr. The sidetone keys. It went together fantastic. There was a lot of engineering put into the sst.

dave ab5pc fresno, ca.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 20:53:10 +0000
From: Ed Loranger <we6w@qsl.net>
To: dave_epps@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [2784] Re: sst
Message-ID: <34D63236.7B89@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hey Dave! Glad to hear it is up and running. Actually spent most of yesterday monitoring my rig hoping you finished it after our QSO.

Good Job.
Ed

dave_epps@juno.com wrote:

>
> IT WORKS. Receiving anyway. Don't have a means to check the output yet
> other than I can hear it in another rcvr. The sidetone keys.
> It went together fantastic. There was a lot of engineering put into the
> sst.
> dave ab5pc fresno, ca.

--

Recipient of coveted Samuel F. B. Morse Award, NTTC Pensacola, FL 1977.
72/73 de we6w qrp es CW ONLY; Member: QRP-L/ARCI/Norcal/ARS/AR
<http://www.qsl.net/we6w> (From Non-Ham to Extra in one Day.)

Date: Mon, 02 Feb 1998 12:59:06 -0800
From: Charlie Panek <charlier@lsid.hp.com>
To: qrp-l@Lehigh.EDU
Subject: [2785] Re: Toroid Cores
Message-ID: <34D6339A.523B@lsid.hp.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> Paul Harden (pharden@aoc.nrao.edu) wrote:
> On Sun, 1 Feb 1998, Michael Pratt wrote:
> > Can some one tell me if there is a trick to finding out how to identify
> > Toroid cores? Is there a color code or a cheat sheet to figure em out?
> > for example T-50-2 or 1? Also are toriods better that form type or air
> > type? Thanks
>
> FT - 50 - 2
> ^ ^ ^
>

```

>
> CORE TYPE:      |      |      | -- Material (permeability) code
> FT=Ferrite    ---|      |      | See below
> T=Iron power---|      |      |
>
>                CORE SIZE CODE
>                -37 = .375 in. dia. (O.D.)
>                -50 = .500 in. dia.
>                etc.
>
> Permeability codes:
>                T-37 CORE      T-50 CORE
>  -2  mu=10  = 40uH/100 turns  49uH/100 turns
>  -6  mu= 8  = 30uH/100 turns  46uH/100 turns
> -10  mu= 6  = 25uH/100 turns  31uH/100 turns
> -43  mu=850 =420uH/100 turns  523uH/100 turns
>
> Thus, your T-50-2 is an iron-core toroid, 1/2 inch outside diameter,
> with an AL of 49uH/100 turns.
>
> The L in uH = AL x N x N/10,000
> where N = number of turns (and N x N means N-squared)
>
>
> GL, Paul NA5N

```

Good info Paul, but you neglected to mention that there is a color code to the powered iron cores:

```

-3  : Grey
-15 : Red and White
-1  : Blue
-2  : Red
-6  : Yellow
-10 : Black    <- kinda hard to distinguish this from an unpainted
core!
-12 : Green and White
-0  : Tan

```

Ferrite cores (like the -43 in Paul's table) are not painted, however, so about the only way to identify them is by winding a few turns on and measuring the inductance (preferably at a fairly low frequency).

For oodles of info about ferrite cores check out:

<http://zeus.cedcc.psu.edu/ind/ferritetoroid.html>

Charlie

KX7L

--

Charlie Panek
charlier@lsid.hp.com

Date: Mon, 02 Feb 1998 13:00:07 -0800
From: Bill Jones <kd7s@psnw.com>
To: qrp-1@Lehigh.EDU
Subject: [2786] Contest Question
Message-ID: <34D633D7.943D47F0@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

With all the energy about FYBO and now the NA Sprint, can anybody confirm whether the NW QRP Club Digital Contest (also scheduled for this weekend) is still a reality? The only reference I've seen is in QST. Could someone from the NW QRP Club enlighten me on this?

Date: Mon, 2 Feb 1998 15:13:15 -0600
From: "Joe Spencer" <joes@tcjc.cc.tx.us>
To: "qrp-1" <qrp-1@Lehigh.EDU>, "nortex" <msdooley@aud.alcatel.com>
Subject: [2787] NORTEX QRP Meeting February 1998
Message-ID: <01bd301f\$6092e140\$f6ff040a@ac-04.tcjc.cc.tx.us>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_024A_01BD2FED.15F87140"

This is a multi-part message in MIME format.

-----_NextPart_000_024A_01BD2FED.15F87140
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

You are all invited to the next meeting of NORTEX, the North Texas QRP = club.=20

Chuck will be out of town so we are meeting in Arlington this month!=20

This meeting will be informal (all NORTEX meetings are informal). The = meeting will convene at 10:AM at Bodacious BBQ in Arlington Texas on Saturday the 7 of February 1998. = (This is the same day that The Lonestar DX meets there in the afternoon..but we can still meet there in the morning with no problem.) For those interested, BBQ may be purchased and eaten beginning at 11:AM. =

=20

Bodacious BBQ is on Division about 1/4 mile East of Hwy 157. If you take Interstate 30 to get to Arlington, there is an exit at Hwy 157. >From that exit, Division is about 1.9 miles South of 30 and Bodacious BBQ is about 1/4 mile East of 157.=20 (Interstate 30 was known as the old Dallas-Ft.Worth toll road)

Topics will include HAMCOM and Field Day 1998.

Bring what you can and any "show and tell" stuff of course.

=20

Hope to see you there!

=20

Joe...KK5NA

-----=_NextPart_000_024A_01BD2FED.15F87140

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

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http-equiv=3DContent-Type>

<META content=3D'"MSHTML 4.71.1712.3"' name=3DGENERATOR>

</HEAD>

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<DIV><FONT =

color=3D#000000 face=3DArial=20

size=3D2>You are all invited to the next meeting of NORTEX, the North = Texas QRP=20

club. </DIV>
<DIV> </DIV>
<DIV>Chuck will be out of =
town so we are=20
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<DIV> </DIV>
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informal (all=20
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at
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(This </DIV>
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<FONT=20
color=3D#000000 face=3DArial size=3D2>and any "show and tell" =
stuff of=20
course.</DIV>
<DIV> </DIV>
<DIV>Hope to see you =
there!</DIV>
<DIV> </DIV>
<DIV> </DIV>

size=3D2>Joe...KK5NA</DIV></DIV></BODY></HTML>

-----=_NextPart_000_024A_01BD2FED.15F87140--

Date: Mon, 2 Feb 1998 14:24:01 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: kd7s@psnw.com
Cc: qrp-1@Lehigh.EDU
Subject: [2788] Re: Contest Question (NWQ Digi QRP Test)
Message-ID: <199802022124.0AA21666@usr02.primenet.com>

Howdy,

Bill (KD7S) wrote:

>
> With all the energy about FYBO and now the NA Sprint, can anybody
> confirm whether the NW QRP Club Digital Contest (also scheduled
> for this weekend) is still a reality? The only reference I've
> seen is in QST.

I'll let the NWQ folks confirm this, but it seems
the QST Contest Corral made more than just FYBO
errors. NWQ never sent in ANY info for a '98 Digital
QRP Contest, and were rather shocked when they saw
the announcement!

A digital QRP contest is a *GREAT* idea, and I sure
hope they sponsor one again soon, but the QST info
is completely erroneous. Go figure.

So, no such contest this month. Maybe soon though?

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"It's hard to be unhappy when your feet are warm."
- Dave Rose, Fellow Snowcamper

Date: Mon, 2 Feb 1998 17:29:14 -0500 (EST)

From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [2789] Sure he's a SK but...
Message-ID: <Pine.LNX.3.93.980202150326.1233B-100000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...he's still shipping product! I talked to Marshall on Friday, shortly after his demise. He seemed in good spirits, all things considered. We talked for a while, and since gross profit is secondary in the afterlife, he even tried to talk me into spending about half what I intended too. I "forced" the money on him and my Key-8 Soviet paddle arrived this morning. So it seems that the USPO has more respect for parcels from "the other side" :)

By the way, the Key-8, very big, very heavy, very nice, paddle, but the keyer is... well... different. Not iambic, but you can insert dahs, sort of. After practicing for half an hour I can now send my call. Gonna go for the external keyer to keep this one intact. Definitely not for everyone, but if you're a new ham like I, and want some instant nostalgia, this might be it. A neat key, very adjustable, but definitely not for /P work. Sure hope it's cold weather Soviet heritage helps out during FYB0. 72

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 28/13(w/c) | http://dns.vidtel.com/~ccart --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? NJ-QRP #105 LIQRP #???? MDmW #5 --

Date: Mon, 2 Feb 1998 12:26:44 -0900 (AST)
From: Bruce Hopkins - KL7JAF <kl7jaf@polarnet.com>
To: qrp-l@Lehigh.EDU
Subject: [2790] Elmer Project / Math Calculator Question
Message-ID: <v03007800b0fb67dfa309@[204.119.24.89]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang...

In preparation for the "Elmer Project", I have started to do some reading and study from the ARRL handbook... I guess that I am approaching this from a new and different angle, this time around I want to be able to figure it out for myself...

Math is not one of my strong subjects but I can find my way around a formula with effort... Looking at the formulas it is apparent that my "Joe

Calculator" is not the most efficient way to go... It looks like it would be real handy to set up the equations and then be able to change the variables...

My question is what I should look for in a Scientific Calculator for electronics use... I see a new batch of graphing scientific calculators at the local "Office Max"... Would something like this be a help... Any suggestions would be appreciated...

I am not certain if this is a topic that should be hashed out on the list so perhaps it would be best to answer me directly... I will be happy to collect all responses and place them on my web site for anyone interested to look at...

Thanks in advance... Take care and have fun...

72 / 73 / oo's - Bruce - KL7JAF

"Alaska QRP Club" - Web Site: <http://www2.polarnet.com/~bhopskins/akqrp>

***** ALASKA QSO PARTY - MARCH 21ST & 22ND 1998 *****
See AKQRP Web Site for Details

Date: Mon, 2 Feb 1998 12:57:52 -0800
From: dave_epps@juno.com
To: qrp-1@Lehigh.EDU
Subject: [2791] toroid measure
Message-ID: <19980202.125836.6774.4.dave_epps@juno.com>

Thanks for all of the feedback on my toroid adventure.
I didn't get much of a manual with the new l-c-r mtr so will have to dig deep
to find out what freq it operates at.
I do have the gdo attachments for my mfj analyzer and that looks like a good way to get a real measure of inductance on the toroids.
Thanks again to "all" that responded to my request for help.
dave ab5pc fresno, ca.

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Mon, 02 Feb 1998 13:44:09 -0800
From: Charlie Panek <charlier@lsid.hp.com>
To: qrp-1@Lehigh.EDU
Subject: [2792] FYBO rig enclosure
Message-ID: <34D63E29.DA3@lsid.hp.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I stopped in at the local drugstore the other day, looking for something a little different to put a Pixie in. I wandered down the candy aisle, and.... There it was! Right next to the Altoids tins! The PERFECT enclosure for a small rig for FYBO. (you could probably put 2 batteries in it along with a SMiTe). Just looking at the lid of the little tin made me want to put on a sweater! We're talking lots of snow here.

Anyway, they're called "Velamints". There's nothing "curious" about them, but they are "intense".

72,

Charlie KX7L

(in Seattle, where it was sunny and in the 60's this weekend. Gonna be hard to freeze *anything* off this weekend, unless I empty out the chest freezer...)

--

Charlie Panek
mailto:charlier@lsid.hp.com

Date: Mon, 02 Feb 1998 14:53:20 -0700
From: John Evans - N0HJ <jaevans@codenet.net>
To: qrp-1@Lehigh.EDU
Subject: [2793] Re: Contest Question (NWQ Digi QRP Test)
Message-ID: <34D6404F.CB1F6D11@codenet.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Date: Mon, 02 Feb 1998 23:37:26 -0800
From: vllario@eic.ictnet.es (Vicenc Llario i Zarzoso)
To: qrp-1@Lehigh.EDU
Subject: [2795] OHR Classic
Message-ID: <34D6C936.1280@eic.ictnet.es>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Hi gang!

I am looking for an unbuilt OHR Classic for 20 and 40m. Does anybody have one and would like to sell it?. Please E-mail me to

vllario@eic.ictnet.es

Thanks in advance for your kind answers and best 72

EA3ADV QRP, Vicen

EA-QRP # 4

G-QRP # 7384

ARCI # 8454

Date: Mon, 2 Feb 1998 21:28:03 +0000
From: Dick G0BPS <Dick@kanga.demon.co.uk>
To: ki6ds@dpol.k12.ca.us
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2796] Re: FYBO Plans ARRRGGGH
Message-ID: <aiyvu2Ajpj10EwQi@kanga.demon.co.uk>
MIME-Version: 1.0

In message <3.0.1.32.19980202115548.00d1c148@dpol.k12.ca.us>, "Hendricks, Doug" <ki6ds@dpol.k12.ca.us> writes
> My heart is with you guys
>at Pinetop, but my warm butt is in Dos Palos. 72, KI6DS

Coward, but after some LOW temp here I sympathise

TTFN de ..

--

Dick Pascoe G0BPS
Kanga Products
Seaview House, Crete Road East
Folkestone CT18 7EG UK

Tel / Fax 44 (0)1303 891106
<http://www.kanga.demon.co.uk>

Date: Mon, 2 Feb 1998 21:07:49 +0000
From: Dick G0BPS <Dick@kanga.demon.co.uk>
To: charlier@lsid.hp.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2797] FOXX-2 advert
Message-ID: <hCDh2mAlWj10Ew07@kanga.demon.co.uk>
MIME-Version: 1.0

Hi gang,

there's been a lot of talk about the Pixie and the Pixie 2
on the group recently, but have you tried the 'best of the rest'
The FOXX-2 from the G-QRP club.

The Pixie and the pixie 2 is a reworked version of the FOXX 1
from ARCI HOF member George Burt GM30XX, he of the OXO and the
ONER fame.

The reworked FOXX-2 was designed by another HOF member Rev George
Dobbs G3RJV for the G-QRP club.

It is also a simple transceiver, but with an audio amp IC on board.

Check with Bill Kelsey N8ET at kanga@mail.bright.net for more details.
Of course you could check my www pages and order from Bill.

Yes I do have an interest - I am Kanga UK!

TTFN es CU @ Dayton

--
Dick Pascoe G0BPS
Kanga Products
Seaview House, Crete Road East
Folkestone CT18 7EG UK
Tel / Fax 44 (0)1303 891106
<http://www.kanga.demon.co.uk>

Date: Mon, 02 Feb 1998 17:45:09 -0500
From: "Bob Edwards, W4ED" <w4ed@flash.net>
To: kl7jaf@polarnet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2798] Re: Elmer Project / Math Calculator Question
Message-ID: <34D64C75.63F2EBF7@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce Hopkins - KL7JAF wrote:

> In preparation for the "Elmer Project",...

How about this, no home work yet, and you're already into it !!

You may want to consider adding a spread sheet to your computer, if one's not there already. Excel, Lotus, etc. They are very capable and can do some graphing too.

My reasons are, they are very easy to learn and you can save each formula and its results in a file. You can line up "what if" cases or simply a favorite set of component values to drive duplicate formulae. I do this both at work and home. One of my favorites is a quarter wave matching section table. Another is a 50 ohm volt PP, volt RMS, dbV, dbm table.

--

```

      Bob    72/73
      http://www.qsl.net/w4ed
      W4ED nr Atlanta @EM73wt
      ...."QRP", more from less....
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      /| / E | \
      /_ | /____|__ \
      [ \ --===== - /
      ~~~~~~
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Date: Mon, 2 Feb 1998 15:41:11 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-1@Lehigh.EDU, cqclist@lists.csn.net, ace4@cornell.edu, ije5a@virginia.edu, mjeanemm@northnet.org
Subject: [2799] On the third day...
Message-ID: <199802022242.PAA28084@edison.chisp.net>

MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

On the third day he arose again from the dead and was allowed to purchase a cell phone.

I'ts great to be alive again! Also now I guess I get to have two birthdays.

sign me
N1FN ex N1FN/ASK

73
Marshall Emm
N1FN/VK5FN
n1fn@mtechnologies.com
Milestone Technologies
Software, kits, tools...
<http://www.mtechnologies.com>
(303)752-3382
--

Date: Mon, 2 Feb 1998 18:17:04 -0500
From: "Bob Kellogg" <ae4ic@nr.infi.net>
To: "qrpforum" <qrp-1@Lehigh.EDU>
Subject: [2800] KnightSMiTe update
Message-ID: <199802022333.SAA14652@mailhost.infi.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Whew!, Gang,

The first batch of 100 KnightSMiTes are shipped!

Now, if you didn't get in on this first batch, you've already missed out on some firsts. The first KnightSMiTe to KnightSMiTe QSO has already taken place. And...

Last night on the Knightlite Net, W4RDF, Don, checked in from Myrtle Beach, SC, with the first known Kit KnightSMiTe contact. As near as I can figure it, Don got his kit in the mail Saturday and had it on the air Sunday

night! He had a nice signal here in Greensboro. Of course, he was pushing a mighty 170mW into one end of his antenna!

Now guys, this was the Knightlites first effort at putting together a kit. So, if you are missing some parts, just remember that Ellen says she thinks I'm missing some parts sometimes, too. Let me know, and we'll quickly ship you what you need.

Also, let me know how the kit arrives and what you think of it. As you will quickly see, we used a unique method to simplify the job of inventorying and identifying parts. It's done for you. Also, there is a carefully written explanation of how the little rig works. There's a description of the best technique for soldering SM parts, and some spare parts for practice. More information, including component by component design theory, is available on the Knightlite website at <http://www.waterw.com/~knights>

Tell us about your mods so we can put mod information on our website. Many have asked about putting the KnightSMiTe on other bands. It's pretty easy to do, but we've purposely left that for the users experimentation.

Parts for the second batch of kits have been ordered, and we expect to start shipping before Valentines day.

For those unfamiliar with the KnightSMiTe project, it is a Surface Mount technology tranceiver kit. The board measures 1" X 1-3/4". The circuit is a much revised Pixie II, that is, a DC receiver and about 100 - 250mW output. It uses a 3.6864 MHz crystal. Our version has a Variable Crystal Oscillator and offset, so the received signal can be heard even when it zero beats the KnightSMiTe signal. Power is supplied by a 9V battery.

This kit consists of a board and the parts to go on the board. It doesn't include jacks for the Antenna, phones and key or an enclosure. Instructions are minimal, but a unique system is used which makes assembly simple. Extra parts are included for practice soldering the SM chips.

The price is \$10 plus \$3 shipping in the U.S., \$5 for DX. Those who order more than one kit pay only one shipping fee. Make checks payable to Bob Kellogg. Enclose a self-addressed address label if you can.

Thanks for your patience and the tremendous support and response to this project.

CUL,
Bob Kellogg, AE4IC, Greensboro, NC
Prolably, but not nececelery. -- Benny Hill

Date: Mon, 2 Feb 1998 23:11:59 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2801] Terminating crystal ladder filters with broadband transformers
Message-ID: <aWbuiIA\$Kl10EwSG@lfheller.demon.co.uk>
MIME-Version: 1.0

Correct termination of the input and output impedances is essential for the correct operation of crystal ladder filters. For some reason, hardly anyone seems to use conventional broadband transformers for this purpose.

I've been experimenting with this type of transformer to match the 50 ohm output from a post-mixer amplifier to the 1 Kohm input impedance of an 8.867 MHz ladder filter I've designed for SSB reception. Using the broadband transformer design technique on page 6.8 of the ARRL Handbook was quite straightforward, and I chose to use 8 turns on the primary winding and 35 turns on the secondary winding, using an FT-37 core (43 mix). I used .2 mm wire for the secondary (about 35 cms) and .28 mm wire for the primary. Testing the transformer using a signal generator across the primary, with a 1 Kohm load, gave the voltage across the load predicted by the turns ratio. The 3 dB bandwidth of the transformer was in excess of 1 MHz to 15 MHz - better than I expected, and eminently suitable for my filter. I'd actually doubled the calculated number of primary turns and increased the number of secondary turns to match, to see what sort of LF performance I'd get.

I chose to use 8.867 MHz crystals, because they are very cheap (colour-burst types) and a highish frequency is needed for SSB bandwidths. Also, I can't hear much around that frequency on a general-coverage Rx, so I should avoid breakthrough problems. I bought 8 of them, they were not very well matched, but good enough (all were within 30% of the bandwidth) for an SSB filter.

Please let me know how you get on if you try this method of termination.

73, Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/dds.htm> for details of my AD9850
DDS system. See " /diy_dsp.htm for a simple DIY DSP ADSP-2104 system.

Date: Mon, 2 Feb 1998 16:49:01 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: RangerSF5@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [2802] Re: ATTN. MFJ 90'S OWNERS
Message-ID: <Pine.SOL.3.91.980202163837.5930B-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 2 Feb 1998 RangerSF5@aol.com wrote:

> Here is the address for the MFJ 90's news letter
> Called the MFJ 90's Radio club
> 3000 Town Center
> Suite 2370
> South Field MI. 48075
> Contact name is JOE FALCONE,EDITOR

WRONG! Joe has not edited the MFJ Newsletter for at least two years.
I received the latest newsletter a few weeks ago, and direct from that
it says (December 1997 issue):

Editor: David Luscombe, W5RIF
13506 Clareton Lane
Cypress, TX 44429

email: dluscombe@pdq.net

David also makes a plea for somebody to take it over, as his job
commitments right now just doesn't give him the time to do a fair
job on it right now. An offer I have considered, but haven't made
up my mind yet. But the point being, until another editor steps
forward, it may be some time before there's another issue.

> Many thanks to Michael Tracy, KC1SX ARRL Laboratory Engineer for providing
> this information

Thanks for trying, Bob, and making the phone call or whatever. You're
just reporting what you were told. The ARRL is on top of things as
usual when it comes to QRP.

Paul NA5N

End of QRP-L Digest 989
